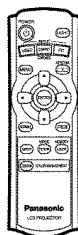
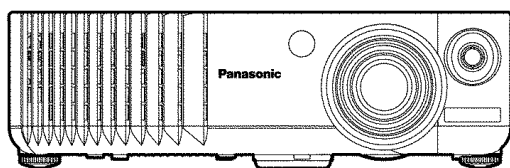


Service Manual

LCD Projector

PT-AE700U
PT-AE700E



Panasonic

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The service technician is required to read and follow the "Safety Precautions" and "Important Safety Notice" in this service Manual.

Specifications

Power supply:

100 V - 240 V AC, 50 Hz / 60 Hz

Power consumption:

180W [During standby (when fan is stopped):

Approx. 3.0 W]

Amps:

2.2 A - 1.1 A

LCD panel:

Panel size (diagonal): 0.7 type (17.78 mm)

Aspect ratio: 16:9

Display method: 3 transparent LCD panels (RGB)

Drive method: Active matrix method

Pixels: 921 600 (1 280 × 720) × 3 panels

Lens:

Manual zoom (1 - 2.0) / Manual focus

F 1.9 - 3.1, f 21.7 mm - 43.1 mm

Lamp:

UHM lamp (130 W)

Luminosity:

1 000 lm

Scanning frequency (for RGB signals):

Horizontal scanning frequency: 30 kHz - 70 kHz

Vertical scanning frequency: 50 Hz - 87 Hz

Dot clock frequency: 100 MHz or less

YPbPr signals:

525i (480i), 525p (480p), 625i (576i), 625p (576p),
1 125 (1 080)/60i, 1 125 (1 080)/50i, 750p (720p)/60p,
750p (720p)/50p

Color system:

7 (NTSC / NTSC 4.43 / PAL / PAL-M / PAL-N / PAL60/
SECAM)

Projection size:

1 016 mm - 5 080 mm

Throw distance:

1.2 m - 12.4 m

Screen aspect ratio:

16:9

Installation:

Front / Rear / Ceiling / Desk (Menu selection method)

Connectors:

VIDEO IN:

S-VIDEO: Single-line, Mini Din 4-pin
Y 1.0 V [p-p], C 0.286 V [p-p], 75 Ω,

VIDEO: Single-line, RCA pin jack
1.0 V [p-p], 75 Ω

PC IN:

RGB: Single-line, D-SUB HD 15-pin (female)

R.G.B.: 0.7V [p-p], 75Ω

G.SYNC: 1.0 V [p-p], 75Ω

HD/SYNC: TTL high impedance, automatic
positive/negative polarity compatible

VD: TTL high impedance, automatic
positive/negative polarity compatible

COMPONENT IN :

Y, Pb/Cb, Pr/Cr: Signal-line, RCA pin jack × 3

Y: 1.0 V [p-p] (Including sync), 75Ω

Pb, Pr (Cb, Cr): 0.7 V [p-p], 75Ω

HDMI IN : Single-line, 19-pin HDMI connector

SCART in: Single-line, 21-pin SCART connector
(PT-AE700E only)

VIDEO: 1.0 V [p-p], 75Ω

RGB: R.G.B.:0.7 V [p-p], 75Ω

SYNC.:0.3 V [p-p], 75Ω

TRIGGER out : Single-line, M3 jack

When the power is turned on (during projection): 12 V

When the power is turned off: 0 V

Cabinet:

Molded plastic (ABS / PC)

Dimensions:

Width: 335 mm

Height: 104 mm

Length: 270 mm (Not including lens)

Weight:

3.6 kg

Operating environment:

Temperature: 0° C - 40° C

(When the "FAN CONTROL" is set to
"HIGH": 0° C - 35° C)

Humidity: 20 % - 80 % (no condensation)

Certifications:

PT-AE700U: UL60950, C-UL, FCC Class B

PT-AE700E: EN60950, EN55022, EN61000-3-2,
EN61000-3-3, EN55024

<Remote control unit>

Power supply:

3 V DC (AAA battery × 2)

Operating range:

Approx. 7 m

(when operated directly in front of signal receptor)

Weight:

70 g (including batteries)

Dimensions:

Width: 43 mm

Height: 22.3 mm

Length: 135 mm

Accessories:

Remote control unit (N2QAEA000025): 1

AAA batteries for remote control unit (× 2): 1

Power cord: PT-AE700U: K2CG3FR00001 1

PT-AE700E: K2CT3FR00003 (U.K) 1

: K2CM3FR00002 1

(continental)

Video cable [K2KA2FA00003 (3.0 m)]: 1

Options:

Ceiling bracket: ET-PKE700

Projection Screen: ET-SRW90CT (width:2 000 mm)

• Specifications are subject to change without notice.

• Weight and dimensions shown are approximate.

⚠ WARNING

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

Trademark Acknowledgements

- VGA and XGA are trademarks of International Business Machines Corporation.
 - S-VGA is a registered trademark of the Video Electronics Standards Association.
 - HDMI, the HDMI logo and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC.
- All other trademarks are the property of the various trademark owners.

Precaution

If using this projector at high elevations (above 1 400 m), set the FAN CONTROL to HIGH. (Refer to "Option settings" in Operating Instructions.)

Failure to observe this may cause malfunctions.

Never use this projector at an elevation of 2 700 m or higher.

Using this projector at high elevations, consult your dealer or Authorized Service Center about preparations.

About lead free solder (PbF)

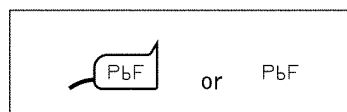
This projector is using the P.C.Board which applies lead free solder. The use of lead free solder is recommended from the standpoint of antipollution for the global environment in service.

Notes:

- Lead free solder: Sn-Ag-Cu (tin, silver and copper) has a higher melting point (approx. 217°C) than standard solder. Typically, the melting point is 30°C to 40°C higher. When servicing, use a high temperature soldering iron with temperature limitation function and set it to 370±10°C.
- Be precautionous about lead free solder: Sn-Ag-Cu (tin, silver and copper) will tend to splash when heated too high (approx. 600°C or higher).
- Use lead free solder for the P.C.Board (specified on it as "PbF") which uses lead free solder. (When you unavoidably use lead solder, use lead solder after removing lead free solder. Or be sure to heat the lead free solder until it melts completely, before applying lead solder.)
- After soldering to double layered P.C.Boards, check the component side for excess solder which may flow onto the opposite side.

About the identification of the lead free solder P.C.Board

For the P.C.Board which applies lead free solder, the symbol as shown in the figure below is printed or stamped on the surface or the back of P.C.Board.



For US

IMPORTANT SAFETY NOTICE

There are special parts used in Panasonic LCD Projectors which are important for safety. These parts are shaded on the schematic diagram. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of PANASONIC BROADCAST & TELEVISION SYSTEMS COMPANY.

WARNING:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

CAUTION: Any unauthorized changes or modifications to this equipment will void the users authority to operate.

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1 Safety Precautions

1.1. General Guidelines

- For continued safety, no modification of any circuit must be attempted.
- Unplug the power cord from the power outlet before disassembling this projector.
- It is advisable to use an isolation transformer in the AC power line before the service.
- Observe the original lead dress during the service. If a short circuit is found, replace all the parts overheated or damaged by the short circuit.
- After the service, all the protective devices such as insulation barriers, insulation papers, shields, and isolation R-C combinations must be properly installed.
- After the service, check the leakage current to prevent the customer from getting an electric shock.

1.2. Leakage Current Check

1. Prepare the measuring circuit as shown in Fig. 1.

Be sure to use a voltmeter having the performance described in Table 1.

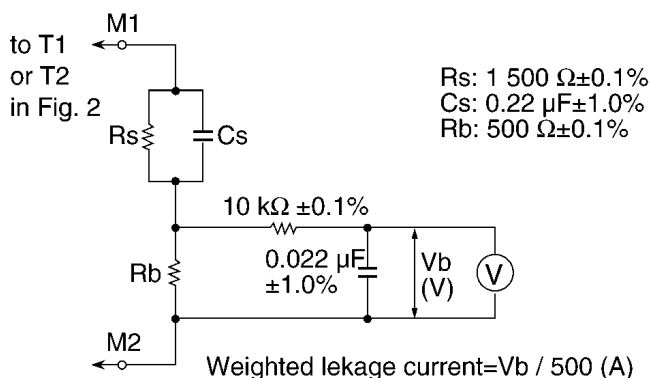


Fig. 1

	Performance
Voltmeter (rms reading)	Accuracy: $\leq 2\%$
	Input resistance: $\geq 1\,\text{M}\Omega$
	Input capacitance: $\leq 200\,\text{pF}$
	Frequency range: 15 Hz to 1 MHz

Table 1

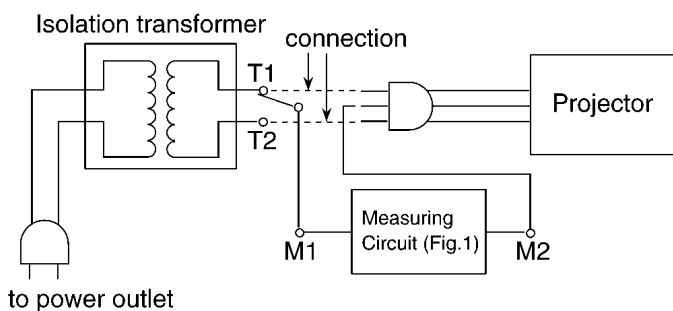


Fig. 2

2. Assemble the circuit as shown in Fig. 2. Plug the power cord in a power outlet.

3. Connect M1 to T1 according to Fig. 2 and measure the voltage.
4. Change the connection of M1 from T1 to T2 and measure the voltage again.
5. The voltmeter must read 0.375 V or lower in both of steps 3 and 4. This means that the current must be 0.75 mA or less.
6. If the reading is out of the above standard, the projector must be repaired and rechecked before returning to the customer because of a possibility of an electric shock.

1.3. UV Precaution and UHM Lamp Precautions

- Be sure to unplug the power cord from the power outlet when replacing the lamp.
- Because the lamp reaches a very high temperature during its operation, wait until it cools completely when replacing the Lamp Unit.
- The lamp emits small amounts of UV-radiation, avoid direct-eye contact with the light.
- Because the high pressure lamp involves a risk of explosion, never touch the lamp wire lead during the service. (See Fig. 3)

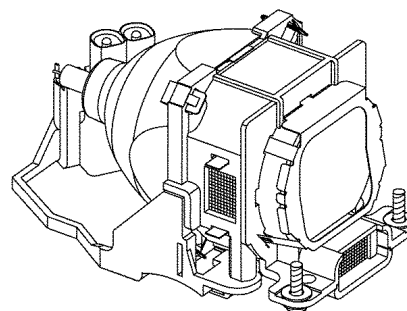


Fig. 3

2 Ext Option

This projector has EXT OPTION in addition to standard on-screen menus.

- There are SELF CHECK, SERVICE MODE and FLICKER ADJ for service, etc.

2.1. Procedure to enter EXT OPTION

1. Press "MENU" button on the main unit or remote control unit to display "MENU" screen, then select "OPTION" and press "ENTER" button.
2. Select "OSD" on "OPTION" menu and press "ENTER" button 3 seconds or longer.

MENU → OPTION → OSD

2.2. EXT OPTION Menu and Functions

EXT OPTION

FREEZE MSG	OFF / ON
PIC.SHIFT	OFF / ON
RUNTIME PRT	OFF / ON
FAN FULLMODE	OFF / ON
AUTO SETUP	NORMAL / SPECIAL
SELF CHECK	
SERVICE MODE	
FLICKER ADJ	

- FREEZE MSG

Switching ON/OFF "FREEZE" on-screen display

- PIC.SHIFT

Switching ON/OFF the antipersistence function

- Shifts the picture slightly (by one dot) when every 60 minutes. (one dot shifting three times, one dot shifting three times in reverse direction, and repeats them alternately.)

- RUNTIME PRT

Switching ON/OFF the shutdown when the operation time for the lamp unit is 2 000 hours or longer

- FAN CONTROL

Setting the cooling fan motor rotation speed

- Switching ON "FAN FULLMODE", the rotation level of the fan becomes high-speed rotation (fixed). Moreover, when "FAN FULLMODE" is ON, changing "FAN CONTROL" in OPTION becomes impossible (setting FAN FULLMODE is given priority more than FAN CONTROL).

- AUTOSETUP

Setting AUTO SETUP mode

- NORMAL: To set the normal mode (the dot clock is adjusted strictly)
- SPECIAL: To set the special mode (the dot clock is adjusted roughly)

* Do not change the initial setting (NORMAL).

- SELF CHECK

To enter the self-check mode

- SERVICE MODE

To enter the service mode

- FLICKER ADJ

To enter the flicker adjustment mode

2.3. Canceling EXT OPTION

Press "MENU" button on the main unit or remote control unit.

3 Self-Check Mode

This mode is used to narrow down the location of the failure.

3.1. Procedure to enter the self-check mode

Select "SELF CHECK" on "EXT OPTION" menu and press "ENTER" button on the main unit or remote control unit.

3.2. Self Check Display and Contents

Display example

①	SELF CHECK			
	R1.00	A1.00		
②	XGA 60			
③	H ***.***KHz	G SAVED	OK	⑭
④	V ***.***Hz	U SAVED	OK	⑮
⑤	IRIS	OK		
⑥	TEMP	OK	FAN	OK
⑦	TEMP1	***	TEMP1	***
⑧	TEMP2	***	TEMP2	***
⑨	LAMP	OK	2000H	OK
⑩	TOTAL	****H	RESET	***
⑪	****H***	****	****H***	
⑫	****H***	****	****H***	
⑬	****H***	****	****H***	

* Above display is an example and the display contents depend on the input signal mode.

The result of items "G SAVED", "U SAVED", "IRIS", "TEMP", "FAN", "LAMP" and "2000H", "OK" is displayed for OK and "NG" is displayed for NG.

	Display Contents	Remarks
①	Microcomputer / FPGA Software Version Display *1	Microcomputer (IC1010) and FPGA (IC1032) software versions are shown from the left.
②	Signal Name	Different display according to the input signal
③	Horizontal Signal Frequency	RGB or YPbPr (YCbCr) signal reception only
④	Vertical Signal Frequency	RGB or YPbPr (YCbCr) signal reception only
⑤	Iris Abnormality Check	It is distinguished whether the iris operates normally.
⑥	Temperature Abnormality Check	Cause of Lamp Malfunction
⑦	Thermosensor 1 A/D conversion value (0 - 255) *2	Current temperature around the LCD panel
⑧	Thermosensor 2 A/D conversion value (0 - 255) *2	Current temperature around the air intake slot (Detects air filter's choke, etc.)
⑨	Lamp Abnormality Check	Cause of Lamp Malfunction
⑩	Total Usage Time	Projector Cumulative Usage Time
⑪	Lamp ON - Cumulative Usage Time / Frequency / Cumulative Usage Time	Current
⑫		Second
⑬		First
⑭	Gamma Correction Data Check	It is distinguished whether gamma data is stored in the flash ROM.
⑮	Color Unevenness Correction Data Check	It is distinguished whether color unevenness correction data is stored in the flash ROM.
⑯	Fan Stop Check	Cause of Lamp Malfunction
⑰	Thermosensor 1 A/D conversion value (0 - 255) *2	Temperature around the LCD panel when the last thermal shutdown occurs
⑱	Thermosensor 2 A/D conversion value (0 - 255) *2	Temperature around the air intake slot when the last thermal shutdown occurs
⑲	Lamp - Judgment for Cumulative Usage more than 2 000 h	Judgment for Replacement Time of Lamp
⑳	Lamp - Reset Frequency of Cumulative Usage Time	Reset Frequency (0 - 255)

*1 FPGA (Field Programmable Gate Array)

LSI that is rewritable quickly while inspecting the program by system designer. (This will be able to reduce the development time.)

*2 When detected abnormal temperature (high temperature around the LCD panel, large difference between temperature at the air intake slot and temperature around the LCD panel), TEMP indicator turned on. If arriving at the critical temperature, the power supply will shut down automatically (thermal shutdown) and the indicator will flash.

3.3. Canceling the self-check mode

Press "MENU" button on the main unit or remote control unit.

4 Service Mode

This mode is used to display seven kinds of test patterns [Horizontal lines, Vertical lines, Dots, Crosshatch, White cross, Black cross and White (No pattern)] in the four colors (White, Red, Green and Blue).

Note:

- On the service mode, displays above patterns by each color without test equipment such as PC or SG. Use the service mode for simplified adjustments by your eyes and so on.

4.1. Procedure to enter the service mode

Select "SERVICE MODE" on "EXT OPTION" menu and press "ENTER" button on the main unit or remote control unit.

Note:

- In the service mode, pressing the up-arrow " ▲ " or down-arrow " ▼ " button allows the test pattern selection and the left-arrow " ◀ " or right-arrow " ▶ " button the color selection (White / Red / Green / Blue).

4.2. Canceling the service mode

Press "MENU" button on the main unit or remote control unit.

5 Flicker Adjustment Mode

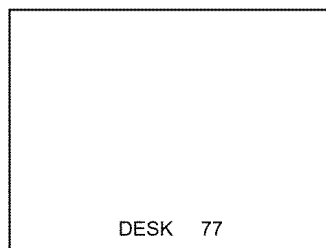
If replacing the optical parts (LCD Panel / LCD block) or A-P.C.Board of this projector, enter the flicker adjustment mode and minimize the flicker.

5.1. Procedure to enter the adjustment mode

Select "FLICKER ADJ" on "EXT OPTION" menu and press "ENTER" button on the main unit or remote control unit.

Note:

"DESK setting (blue)" is displayed when entering the adjustment mode.



Adjustment Display when DESK setting

5.2. Adjustment Display and Contents

- Setting value is increased and decreased with the right-arrow " ▶ " and left-arrow " ◀ " buttons.
 - " ◀ ": Decrease, " ▶ ": Increase
 - Adjust the setting value to minimize the flicker on the screen.
 - Execute the adjustment by 6 patterns below.
- The pattern (adjustment display) is switched with the up-arrow " ▲ " and down-arrow " ▼ " buttons.
 - " ▲ ": Forward direction, " ▼ ": Reverse direction
 - There are 6 patterns of "DESK setting (blue)", "DESK setting (red)", "DESK setting (green)", "CEILING setting (blue)", "CEILING setting (red)" and "CEILING setting (green)".
 - The setting value is saved into this projector when the pattern is switched.

5.3. Canceling the flicker adjustment mode

Press "MENU" button on the main unit or remote control unit.

Note:

When "MENU" button is pressed, the setting value at that time is saved into this projector and the adjustment mode is canceled.

6 Disassembly Instructions

Warning:

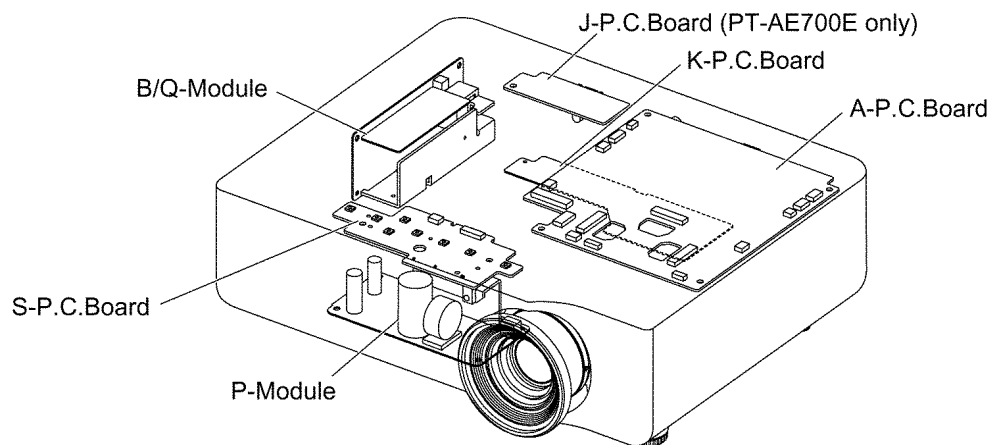
- Be sure to unplug the power cord from the power outlet before disassembling this projector.

Caution:

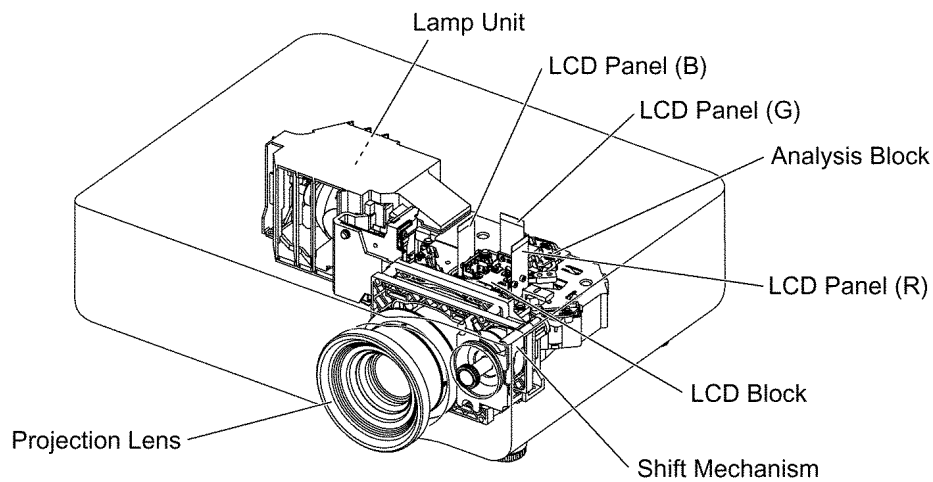
- While turning over a printed circuit board, be sure to put a insulating material under it to prevent a short circuit.
- Printed circuit boards and wires must not be pulled forcibly, but be handled carefully.
- Connectors also must be handled carefully.
- After repairing this projector, be sure to put back the wires and connectors to the original condition.

6.1. Printed Circuit Board and Main Parts Location

Electrical Parts

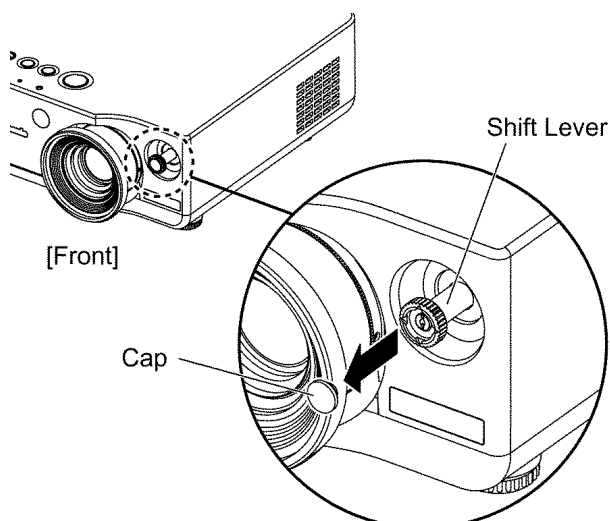


Optical Parts



6.2. Removal of Upper Case

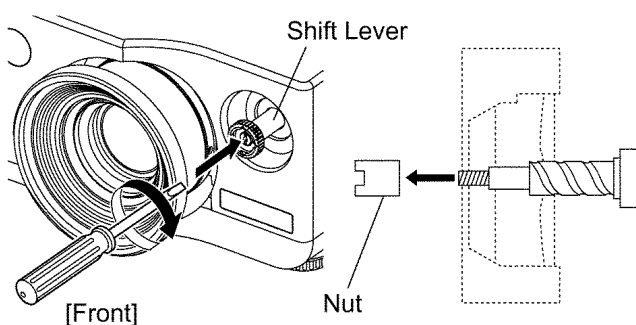
1. Remove the cap of the lens shift lever.



2. Unscrew the nut in the shift lever.

Note:

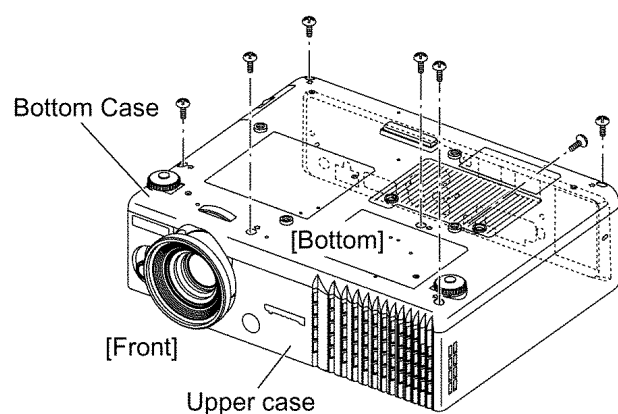
- Turn clockwise the nut to unscrew.



3. Turn counterclockwise the shift lever and remove it.

4. Turn the projector upside down.

5. Unscrew the 7 screws.

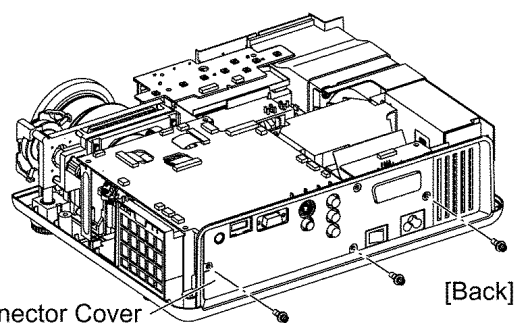


6. Return the projector to the normal position.

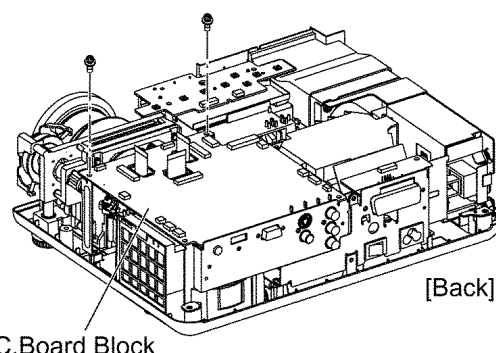
7. Remove the upper case.

6.3. Removal of A-P.C.Board

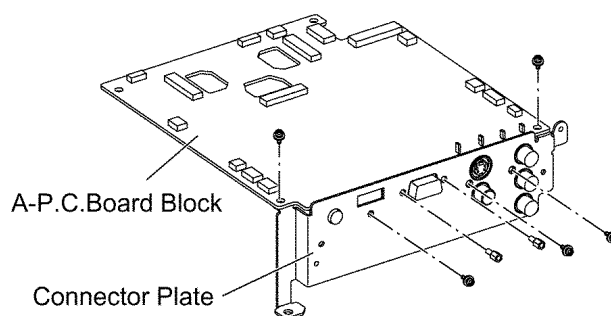
1. Remove the upper case according to the section 6.2. "Removal of Upper Case".
2. Unscrew the 3 screws and remove the connector cover.



3. Unscrew the 2 screws and remove the A-P.C.Board block.

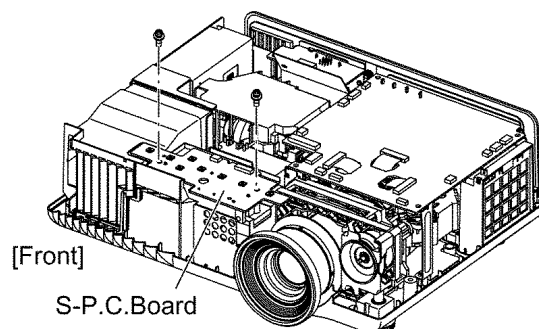


4. Unscrew the 7 screws and remove the connector plate.



6.4. Removal of S-P.C.Board

1. Remove the upper case according to the section 6.2. "Removal of Upper Case".
2. Unscrew the 2 screws and remove the S-P.C.Board.

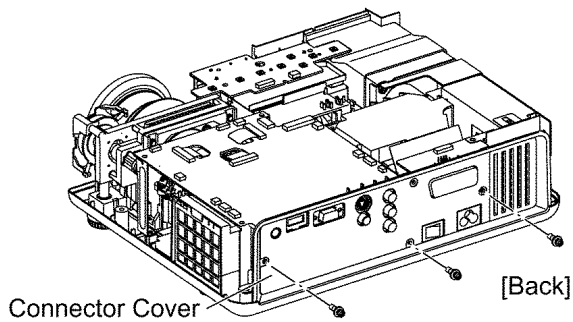


6.5. Removal of J-P.C.Board (PT-AE700E only)

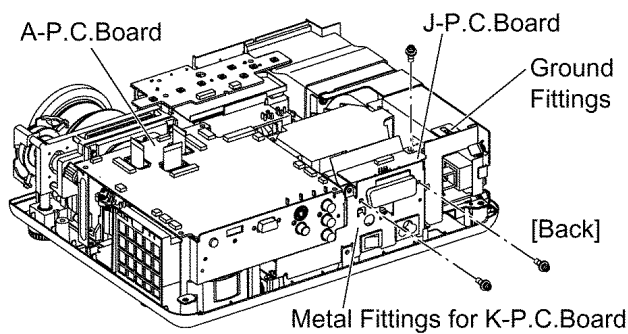
1. Remove the upper case according to the section 6.2.

"Removal of Upper Case".

2. Unscrew the 3 screws and remove the connector cover.

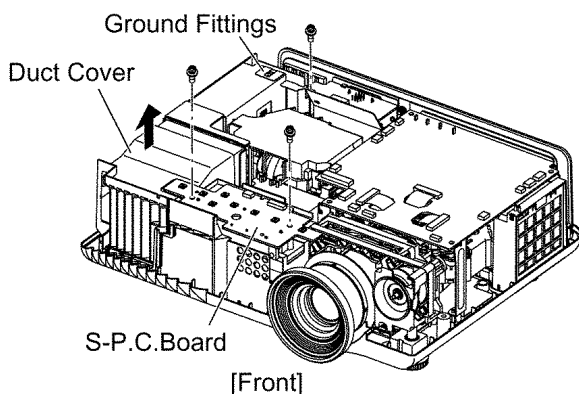


3. Unscrew the 3 screws and remove the J-P.C.Board.

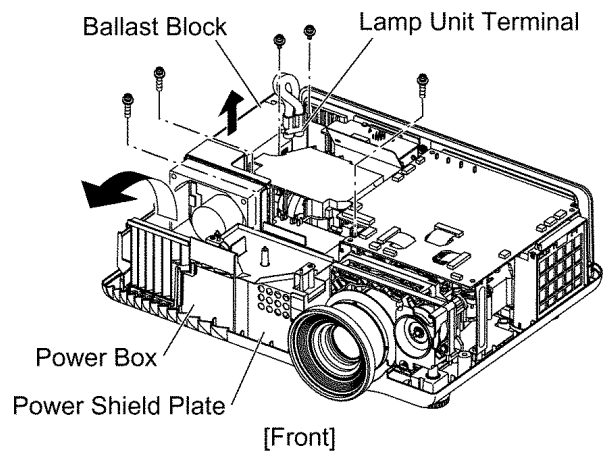


6.6. Removal of B/Q-Module

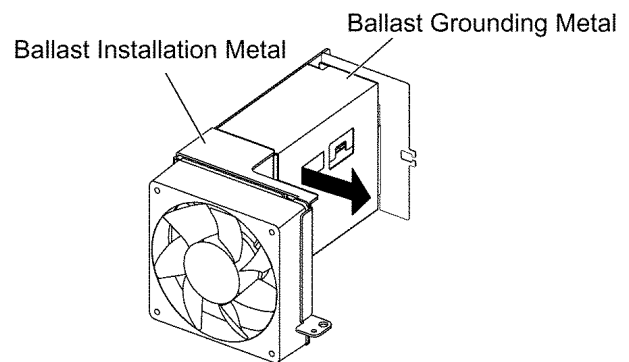
1. Remove the upper case according to the section 6.2. "Removal of Upper Case".
2. Unscrew the 2 screws and remove the S-P.C.Board.
3. Unhook the hook section and remove the duct cover.
4. Unscrew the 1 screw and remove the ground fittings.



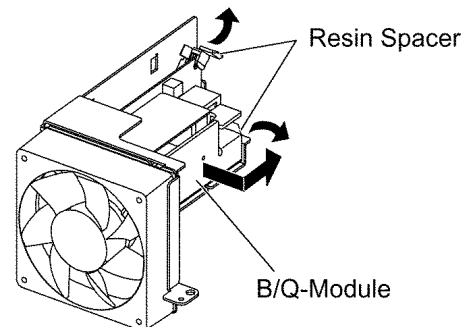
5. Unscrew the 1 screw and release the ballast block.
6. Unscrew the 2 screws and remove the power box with power shield plate.
7. Unscrew the 2 screws and release the lamp unit terminal.



8. Disconnect the connector P2 and remove the ballast block.
9. While sliding the ballast grounding metal, unhook the hook section and remove it.

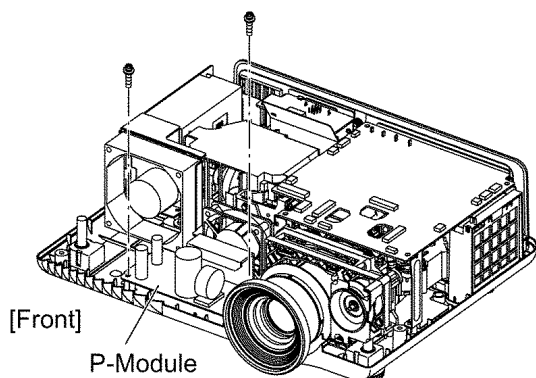


10. Unhook the hook section of resin spacer and remove the B/Q-Module.



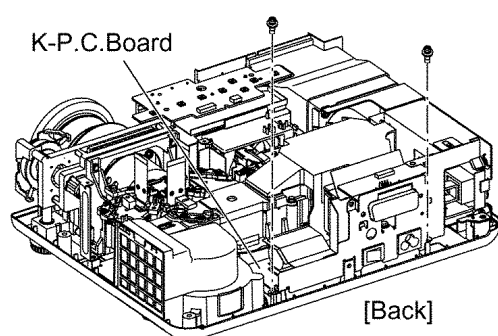
6.7. Removal of P-Module

1. Remove the power box according to the steps 1 through 5 in the section 6.6. "Removal of B/Q-Module".
2. Unscrew the 2 screws and remove the P-Module.

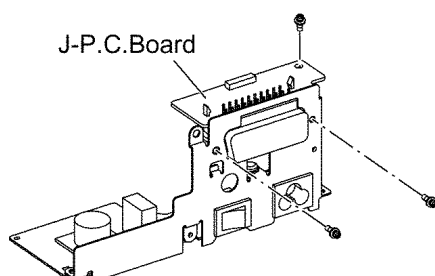


6.8. Removal of K-P.C.Board

1. Remove the A-P.C.Board block according to the steps 1 through 3 in the section 6.3. "Removal of A-P.C.Board".
2. Unscrew the 2 screws and remove the K-P.C.Board block.

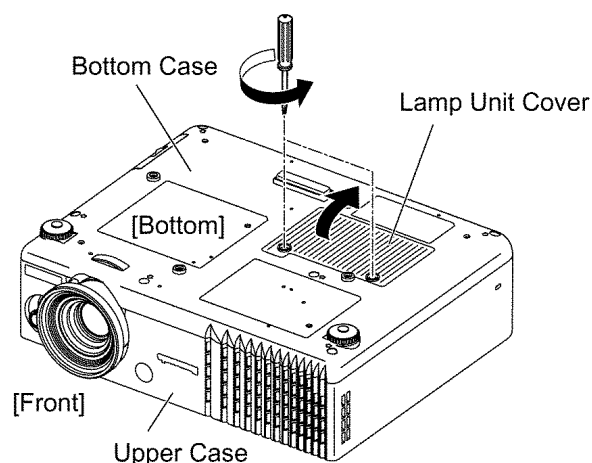


3. For PT-AE700E, unscrew the 2 screws and remove the J-P.C.Board.

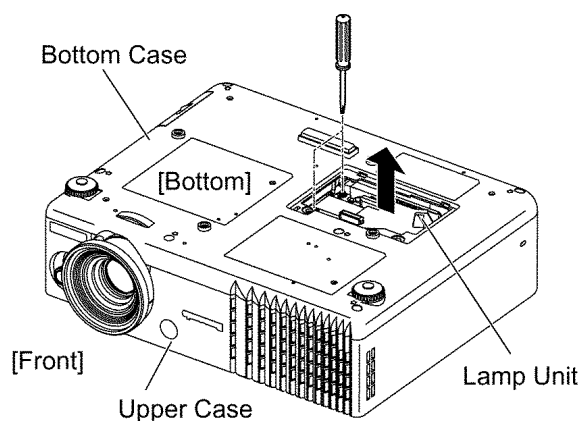


6.9. Removal of Lamp Unit

1. Turn the projector upside down.
2. Loosen the 2 screws until they idle and remove the lamp unit cover.

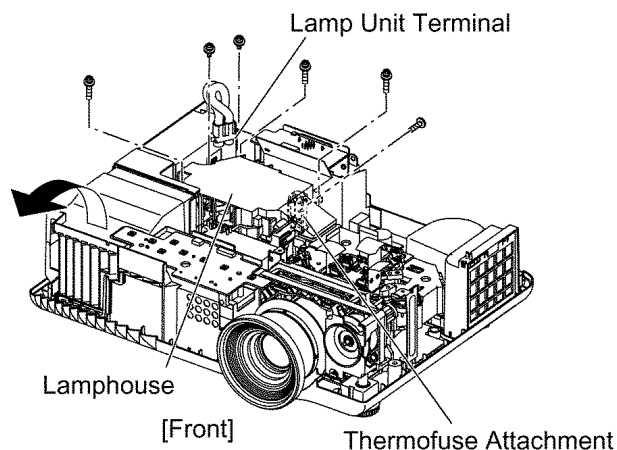


3. Unscrew the 2 screws fixing the lamp unit and remove the lamp unit.

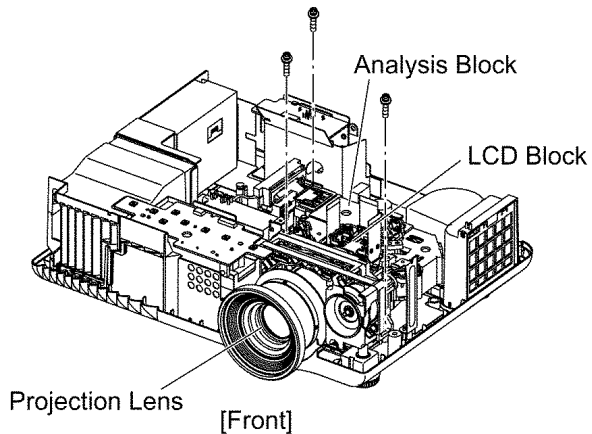


6.10. Removal of Analysis Block and Projection Lens

1. Remove the lamp unit according to the section 6.9. "Removal of Lamp Unit".
2. Remove the A-P.C.Board block according to the steps 1 through 3 in the section 6.3. "Removal of A-P.C.Board".
3. Unscrew the 2 screws and release the lamp unit terminal.
4. Unscrew the 1 screw and remove the thermofuse attachment.
5. Unscrew the 3 screws and remove the lamphouse.

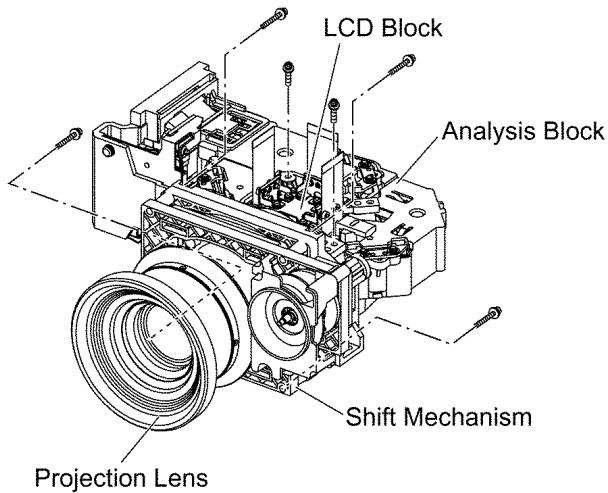


6. Unscrew the 3 screws and remove the block of Analysis Block, LCD Block and Projection Lens Block.

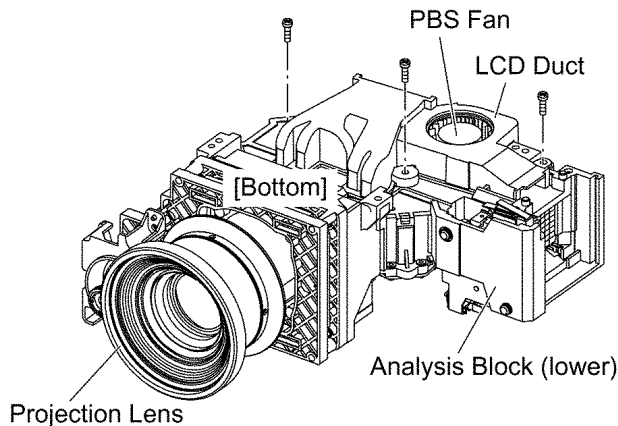


7. Unscrew the 2 screws and remove the LCD block.

8. Unscrew the 4 screws and remove the projection lens block (with shift mechanism).

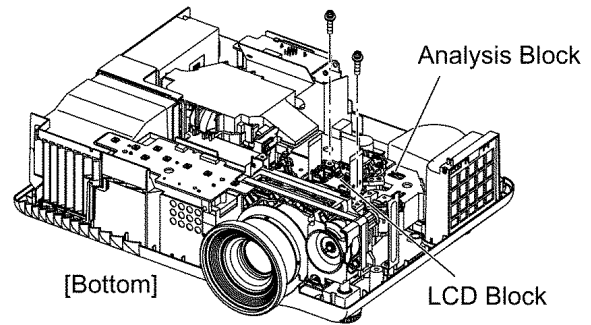


9. Unscrew the 3 screws and remove the LCD duct and PBS fan.



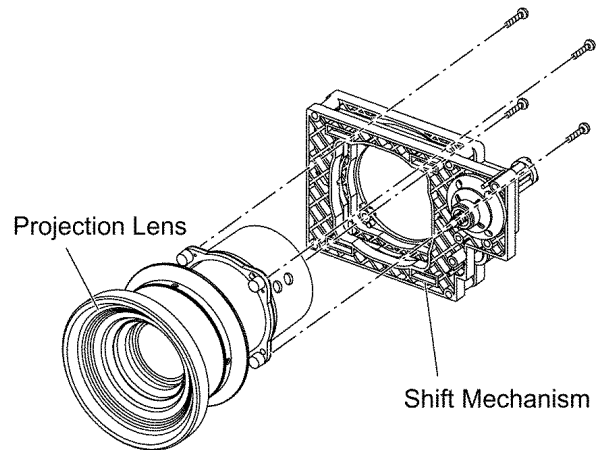
6.11. Removal of LCD Block

1. Remove the A-P.C.Board block according to the steps 1 through 3 in the section 6.3. "Removal of A-P.C.Board".
2. Unscrew the 2 screws and remove the LCD block.



6.12. Removal of Projection Lens

1. Remove the projection lens block according to the steps 1 through 8 in the section 6.10. "Removal of Analysis Block and Projection Lens".
2. Unscrew the 4 screws and separate the projection lens and the shift mechanism.



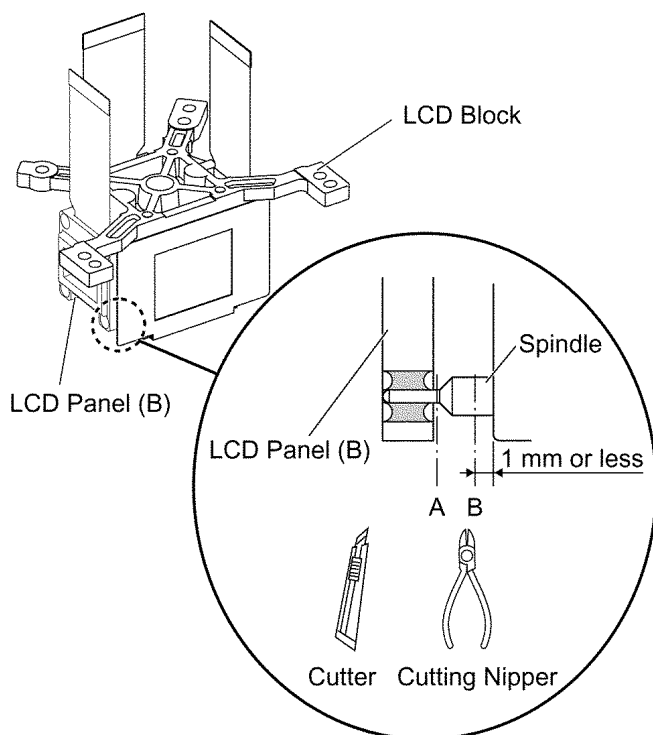
6.13. Replacement of LCD Panel

- The procedure is described as an example of LCD panel (B).

1. Remove the LCD block according to the section 6.11. "Removal of LCD Block".
2. Cut the 4 LCD panel installation spindles at the position A and remove the LCD panel.
3. Cut the 4 LCD panel installation spindles at the position B and remove them.

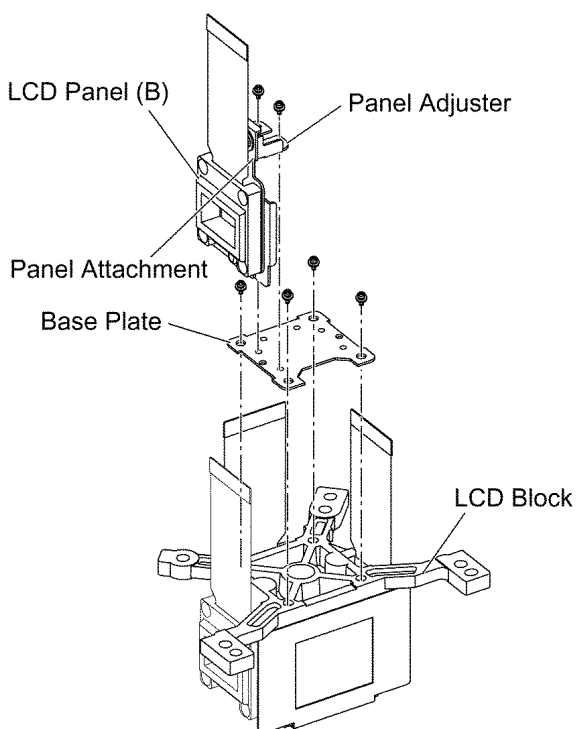
Notes:

- Work carefully not to apply external force around the spindle part by using a cutter, cutting nipper or the like for cutting the spindle.
- Adjust the height after the spindle is cut to 1 mm or less.



4. Attach the base plate with 4 screws.

5. Tighten the 2 screws temporarily just until new LCD panel (with the panel attachment and panel adjuster) can be shifted by your fingers.



6. Reassemble the projector in the reverse order of disassembling, but leave the upper case and the screws fixing the A-P.C.Board block as they are removed.

7. Adjust the convergence according to the section 7.4. "Convergence Adjustment".

8. After the adjustment, while paying attention not to vary the adjusting result, tighten the 2 screws (upper) fixing the panel attachment temporarily with a hexagon head wrench.

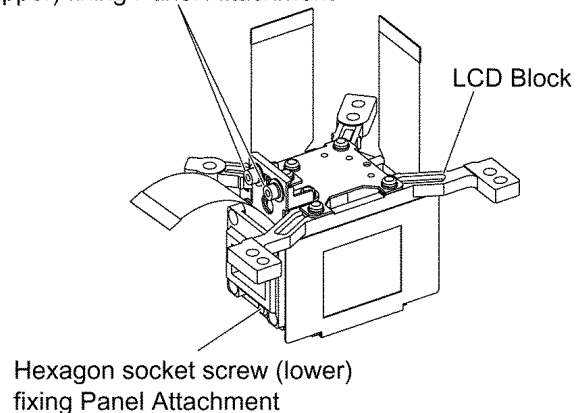
Note:

- Prepare a hexagon head wrench processed short.

9. Remove the LCD block again.

10. Tighten the 3 screws fixing the panel attachment.

Hexagon socket screws
(upper) fixing Panel Attachment



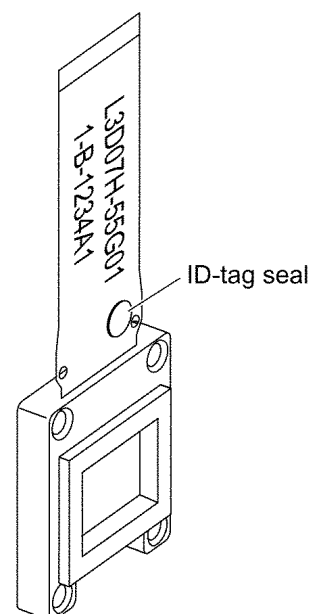
11. Adhere the shading sheet as it was.

12. Reassemble the projector as it was.

6.14. LCD Panel Discrimination

ID-tag seal color	LCD panel
Red	LCD panel (R)
Blue	LCD panel (B)
(No seal)	LCD panel (G)

- Since the ID-tag seal is pasted to the FPC of LCD Panel, (R), (G) or (B) can be easily identified by the color of the seal.
- Finally, identify the panel color by the part number printed on the FPC.



6.15. LCD Panel Combination

- Part number is printed on the FPC of LCD Panel.
- When replacing LCD Panel, use a component which has the same part number as the original.

LCD panel	Combination 1	Combination 2
R	L5BDAXQ00188 (L3D07H-55G01)	L5BDAXQ00191 (L3D07H-56G01)
G	L5BDAXQ00192 (L3D07H-56G01)	L5BDAXQ00189 (L3D07H-55G01)
B	L5BDAXQ00190 (L3D07H-55G01)	L5BDAXQ00193 (L3D07H-56G01)

6.16. Replacement of Projection Polarizer

1. Remove the LCD block according to the section 6.11. "Removal of LCD Block".

2. Remove the projection polarizer which requires replacing.
(The projection polarizer is adhered with the adhesive tape.)

Note:

- Be careful not to damage peripheral components (prism, LCD panel, etc.).
- Use tweezers.

3. Install new projection polarizer.

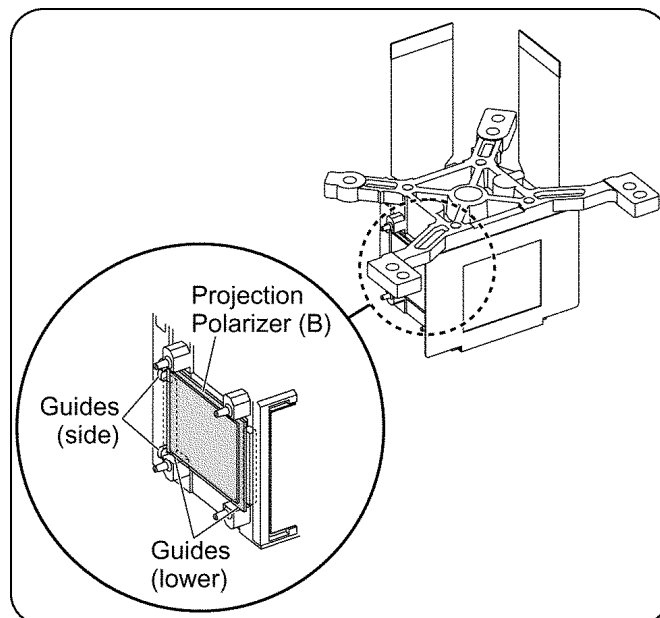
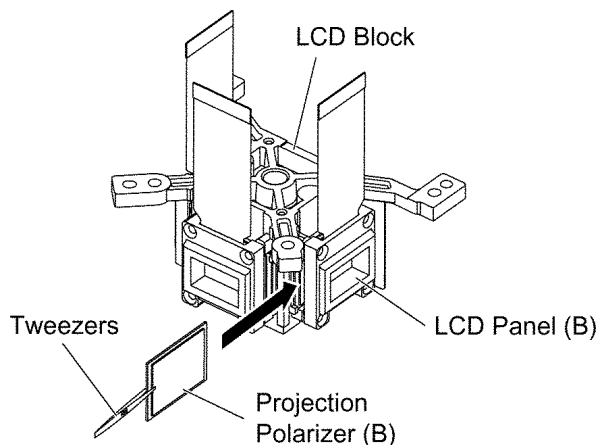
a. Put adhesive tape on the projection polarizer.

b. Adhere the projection polarizer on the specified position.

Notes:

- Align the projection polarizer with the guides (lower, side) of LCD block.
- Be careful not to touch the surface of projection polarizer.
- Use tweezers.

c. Press the adhesive part and secure the projection polarizer.



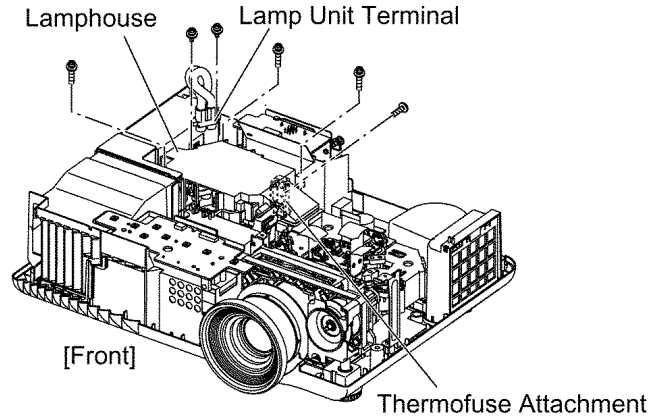
6.17. Replacement of Incidence Polarizer (R and B)

1. Remove the A-P.C.Board block according to the steps 1 through 3 in the section 6.3. "Removal of A-P.C.Board".

2. Unscrew the 2 screws and release the lamp unit terminal.

3. Unscrew the 1 screw and remove the thermofuse attachment.

4. Unscrew the 3 screws and remove the lamphouse.

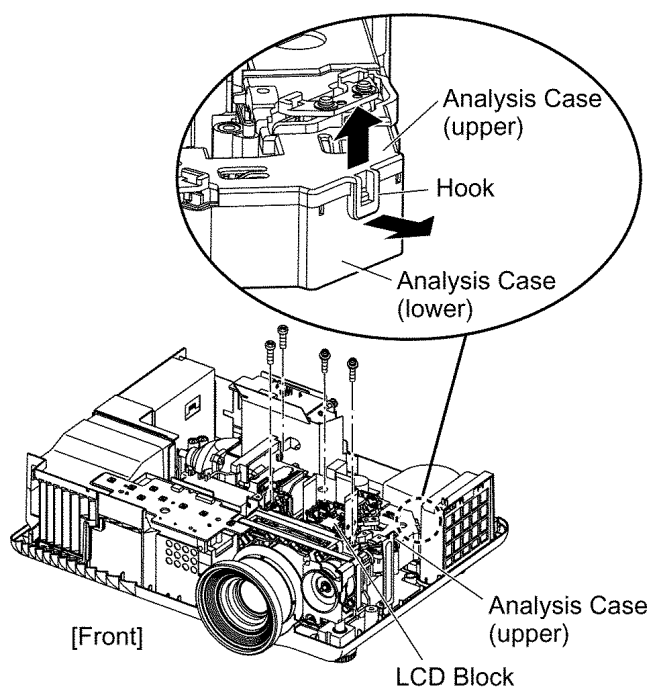


5. Unscrew the 2 screws and remove the LCD block.

6. Unscrew the 2 screws and remove the analysis case (upper) while expanding the hook of it outside.

Notes:

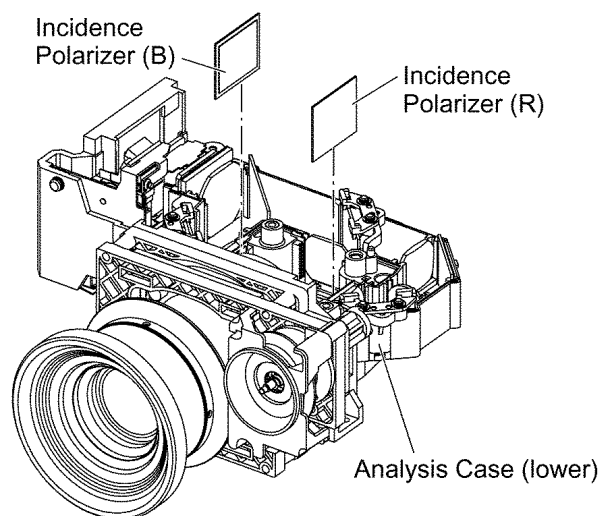
- Because the hook is damaged easily, be careful not to expand it excessively.
- The incidence polarizer (G) is installed in the analysis case (upper). Handle it with care.



7. Replace the incidence polarizer.

Note:

- Be careful not to touch the surface of incidence polarizer.



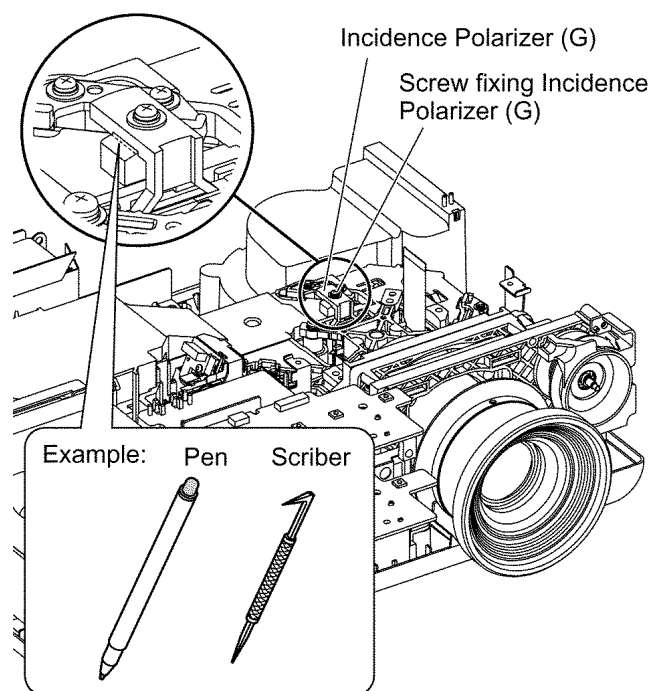
6.18. Replacement of Incidence Polarizer (G)

1. Remove the A-P.C.Board block according to the steps 1 through 3 in the section 6.3. "Removal of A-P.C.Board".
2. Mark positions of the incidence polarizer (G).

Note:

- Mark accurately as possible because the marks will be used for resetting the incidence polarizer position.

3. Unscrew the 1 screw and remove the incidence polarizer.
4. Attach a new incidence polarizer and align it with the mark.
5. Tighten the 1 screw polarizer with care not to move the incidence polarizer position.



6.19. Replacement of PBS Array (Analysis Block)

1. Remove the analysis case (upper) according to the steps 1 through 6 in the section 6.17. "Replacement of Incidence Polarizer (R and B)".

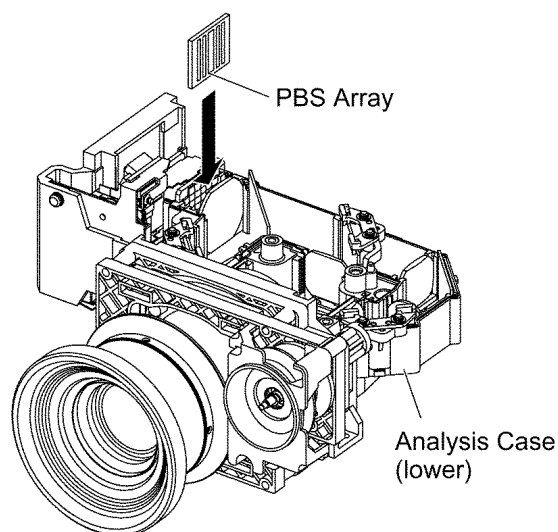
Note:

- Because the hook is damaged easily, be careful not to expand it excessively.

2. Remove the PBS array .
3. Install new PBS array.

Notes:

- Be careful not to mistake the direction (inside and outside).
- Be careful not to touch the surface of PBS array.

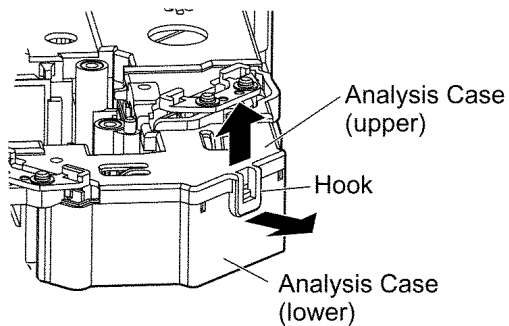


6.20. Removal of Iris Unit

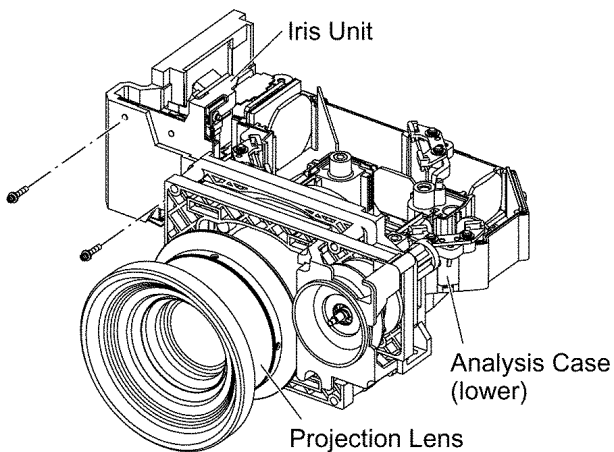
1. Remove the analysis Block according to the steps 1 through 7 in the section 6.10. "Removal of Analysis Block and Projection Lens".
2. Unscrew the 2 screws and remove the analysis case (upper) while expanding the hook of it outside.

Notes:

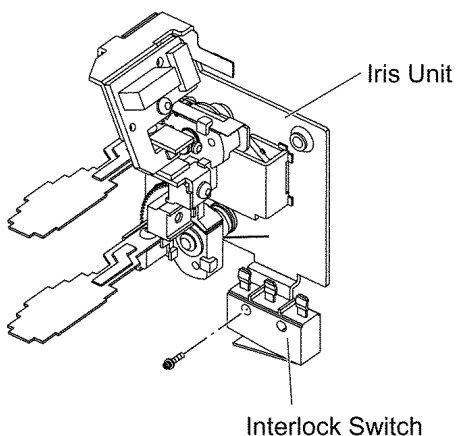
- Because the hook is damaged easily, be careful not to expand it excessively.
- The incidence polarizer (G) is installed in the analysis case (upper). Handle it with care.



3. Unscrew the 2 screws and remove the iris unit with interlock switch.

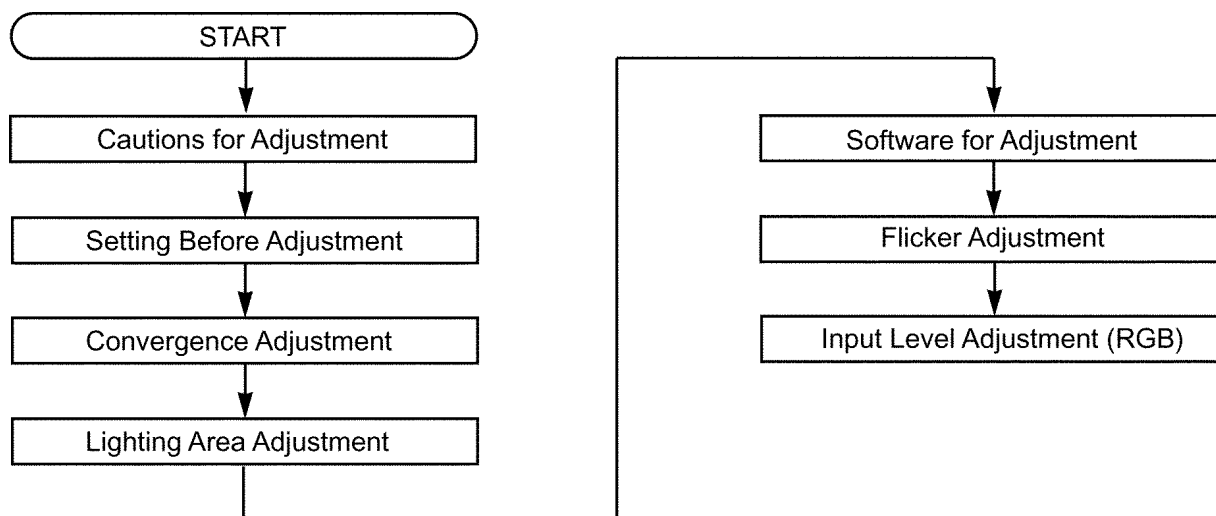


4. Unscrew the 1 screw and remove the interlock switch.



7 Measurement and Adjustments

7.1. Adjustment Procedure Flowchart

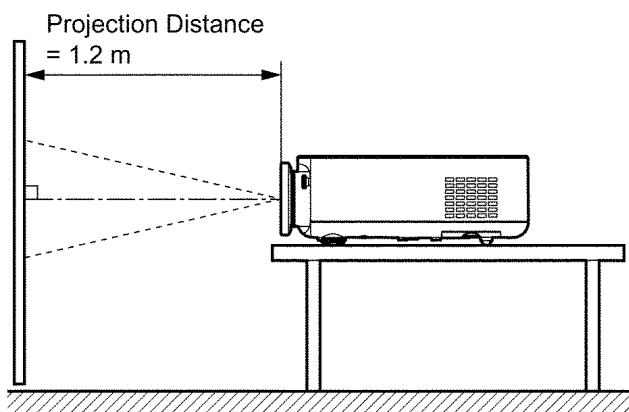


7.2. Cautions for Adjustment

- Never turn off the MAIN POWER switch until every fan completely stops.
- To maintain and ensure safety, always use the designated components for replacement parts.
- If removing any clamps, lead wires or connectors, always place them back in their proper locations.
- Be careful not to damage the lead wires or components when using a soldering iron or similar tool.

7.3. Setting Before Adjustment

- Set up the projector to obtain the projection distance below.
- Turn the zoom ring of the projector to obtain the largest size of the picture.



7.4. Convergence Adjustment

Execute this adjustment when replacing the LCD panel.

7.4.1. Tools to be used

Service Kit (Part No. TZSH07017): This kit is composed of 3

extension flexible cables and 3 connector extension cables.

Note:

- Consult your dealer or Authorized Service Center for the service kit.

7.4.2. Preparation

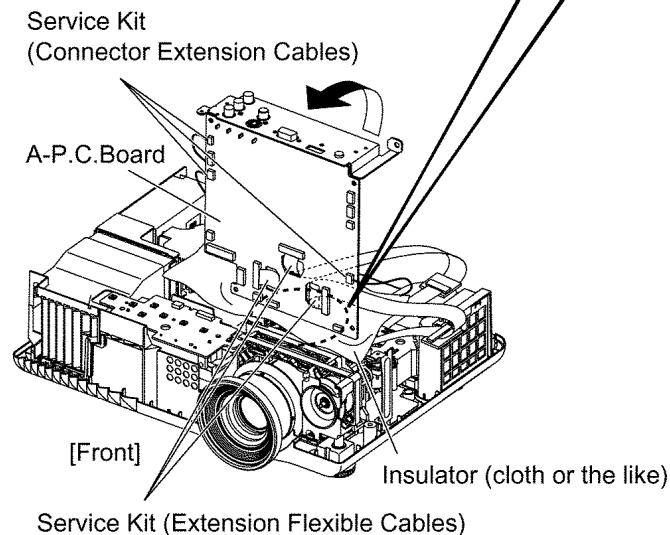
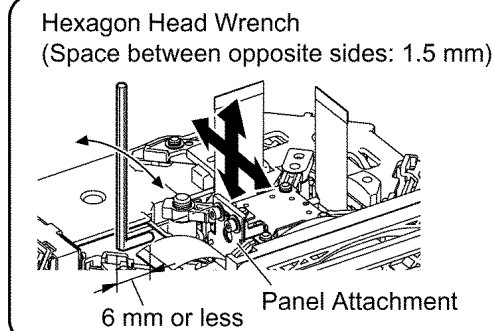
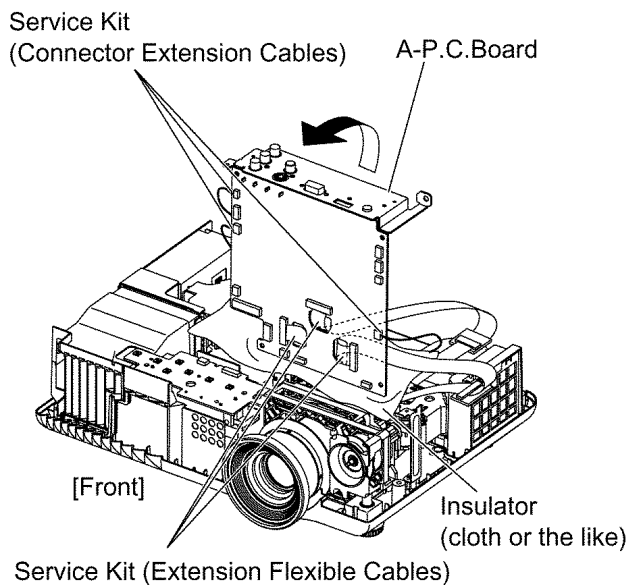
1. Loosen 2 screws fixing the panel adjuster and 3 screws fixing the panel attachment, then tighten the 5 screws temporarily just until the LCD panel can be shifted by your fingers.

Note:

- See figures in the section 6.13. "Replacement of LCD Panel" for 2 screws fixing the panel adjuster and 3 screws fixing the panel attachment.
2. Reassemble the projector in the reverse order of disassembling, but leave the upper case and the screws fixing the A-P.C.Board block as they are removed.
 3. Connect the service kit (extension cables).
 - Each flexible cable of LCD Panels (R/G/B) - Connectors (A1/A2/A3) on A-P.C.Board
 - Ballast block [Connector (Q3) on Q-Module] - Connector (A4) on A-P.C.Board
 - Intake fan connector - Connector (A15) on A-P.C.Board
 - PBS fan connector - Connector (A18) on A-P.C.Board
 4. Covering with an insulator (cloth or the like) to prevent a short circuit, set the A-P.C.Board block on the main unit.

Note:

- Handle with care not to apply external force to connecting parts which connect the main unit and A-P.C.Board.



7.4.3. Adjustment Procedure

Prepare 2 pieces of thick black paper (23 mm × 100 mm) that can be shaded.

- Cover and shade LCD panels with the paper except the panel for adjustment.

7.4.3.1. When replacing single LCD panel (R, G or B)

- The procedure is described as an example when LCD panel (B) is replaced.

1. Display the green crosshatch pattern and adjust the lens focus.
2. Display green and blue crosshatch patterns.
3. Adjust focus by shifting the panel adjuster for LCD panel (B) back and forth, then tighten the 2 screws.
4. Adjust the LCD panel (B) position so that the vertical center of blue crosshatch pattern is overlapped with the vertical center of green crosshatch pattern.
5. Adjust the LCD panel (B) position so that the horizontal center of blue crosshatch pattern is overlapped with the horizontal center of green crosshatch pattern.
6. Correct the tilt of the blue crosshatch pattern by adjusting the LCD panel (B) position.
7. Display green, red and blue crosshatch patterns and confirm the convergence. If it is necessary, fine adjust the convergence so that the red and/or blue crosshatch pattern is overlapped with green one.
8. After the adjustment, reassemble the projector according to the section 6.13. "Replacement of LCD Panel".

7.5. Lighting Area Adjustment

7.5.1. Tools to be used

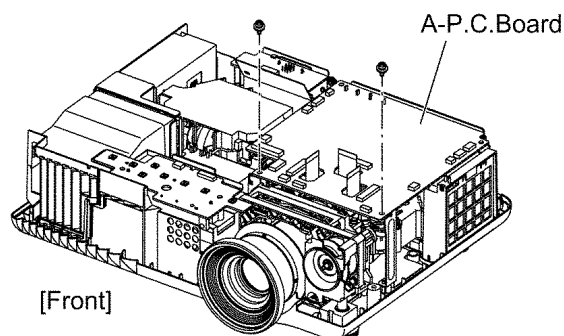
Service Kit (Part No. TZSH07017): This kit is composed of 3 extension flexible cables and 3 connector extension cables.

Note:

- Consult your dealer or Authorized Service Center for the service kit.

7.5.2. Preparation

1. Remove the upper case and the connector cover according to the steps 1 through 2 in the section 6.3. "Removal of A-P.C.Board".
2. Unscrew the 2 screws.



3. Connect the service kit (extension cables).

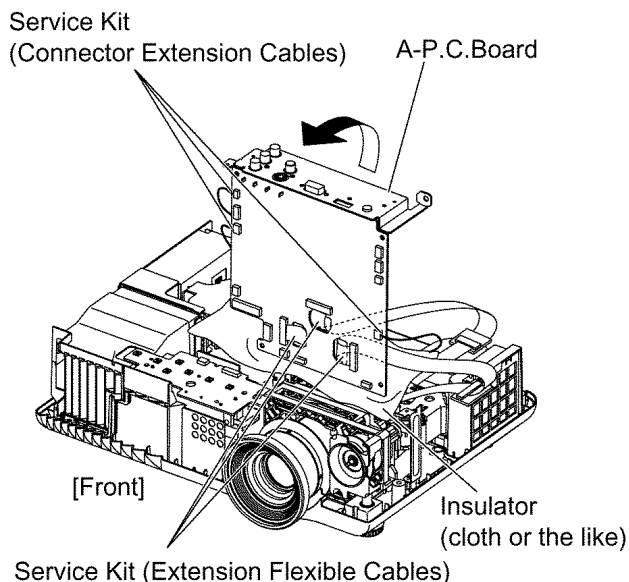
- Each flexible cable of LCD Panels (R/G/B) - Connectors (A1/A2/A3) on A-P.C.Board

- Ballast block [Connector (Q3) on Q-Module] - Connector (A4) on A-P.C.Board
- Intake fan connector - Connector (A15) on A-P.C.Board
- PBS fan connector - Connector (A18) on A-P.C.Board

4. Covering with an insulator (cloth or the like) to prevent a short circuit, set the A-P.C.Board block on the main unit.

Note:

- Handle with care not to apply external force to connecting parts which connect the main unit and A-P.C.Board.



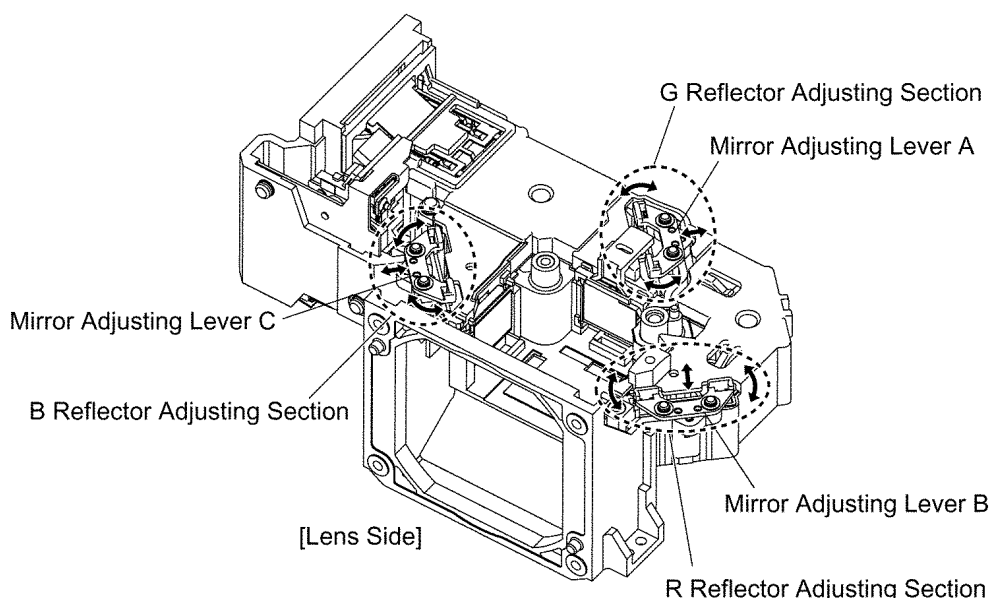
7.5.3. Adjustment Procedure

7.5.3.1. Outline

When the lighting area is off from the adjustment and color unevenness appears, adjust the lighting area into correct position.

Symptom	Measure
Magenta unevenness	G Reflector Adjustment
Cyan unevenness	R Reflector Adjustment
Yellow unevenness	B Reflector Adjustment

- Shifting the mirror adjusting lever horizontally, adjust color unevenness on the screen upper/lower sides.
- Twisting the mirror adjusting lever, adjust color unevenness on the screen right/left sides.



[Above figure is shown only the analysis block for explanation.]

7.5.3.2. G Reflector Adjustment

1. Turn on the power and display 100 % white pattern on the screen.
2. Loosen the 2 screws fixing the mirror adjusting lever A just until the lever can be shifted.
3. Adjust the mirror adjusting lever A position to minimize color unevenness on the screen by shifting the lever in arrow directions.

4. Tighten the 2 screws.

7.5.3.3. R Reflector Adjustment

1. Turn on the power and display 100 % white pattern on the screen.
2. Loosen the 2 screws fixing the mirror adjusting lever B just until the lever can be shifted.
3. Adjust the mirror adjusting lever B position to minimize color unevenness on the screen by shifting the lever in arrow directions.

unevenness on the screen by shifting the lever in arrow directions.

4. Tighten the 2 screws.

7.5.3.4. B Reflector Adjustment

1. Turn on the power and display 100 % white pattern on the screen.

2. Loosen the 2 screws fixing the mirror adjusting lever C just until the lever can be shifted.

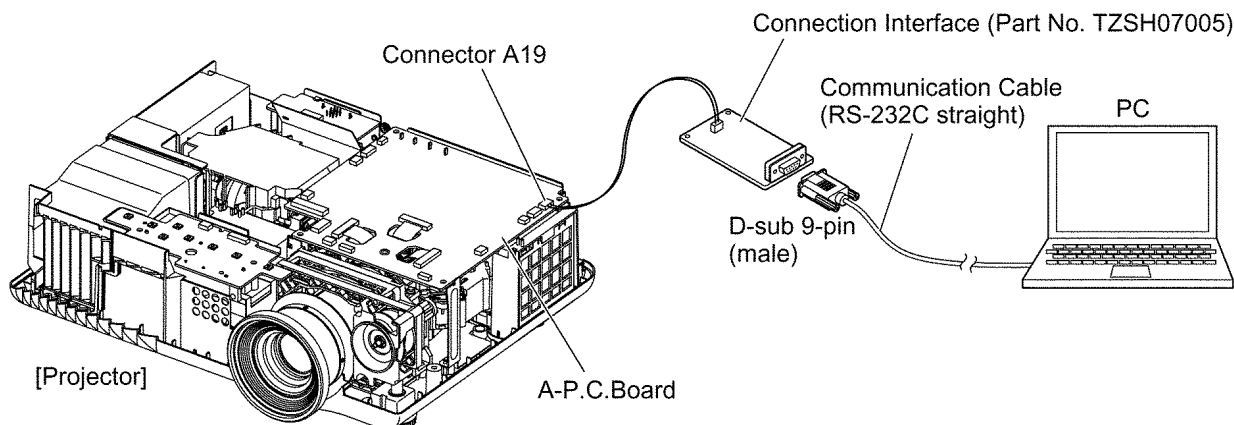
3. Adjust the mirror adjusting lever C position to minimize color unevenness on the screen by shifting the lever in arrow directions.

4. Tighten the 2 screws.

7.6. Software for Adjustment

7.6.1. Outline

- This projector needs computer-aided adjustments.
- After the software adjustments, this projector must be turned off and on again to memorize the settings.
- Connect the connection interface and communication cable between the projector and a PC as shown below.
- Updating the software will change the version number.



7.6.2. Operating Procedure

1. Run the software program by the keyboard entry.

Note:

- Use the software program as below.

Adjustment Tool [AE700]

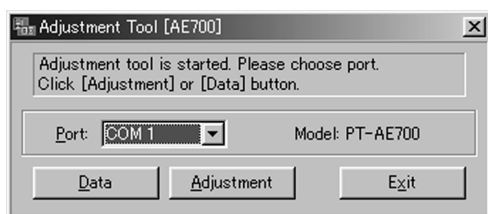
2. The first menu is Port selection menu.

3. Adjust the projector by selecting the necessary item from the menu in each stage.

Exit:

Exits this application.

7.6.3. Port Name and Projector Selection Menu



Select the port name of PC which connects with the projector, then click [Data] or [Adjustment] button.

7.6.3.1. Explanation of Buttons

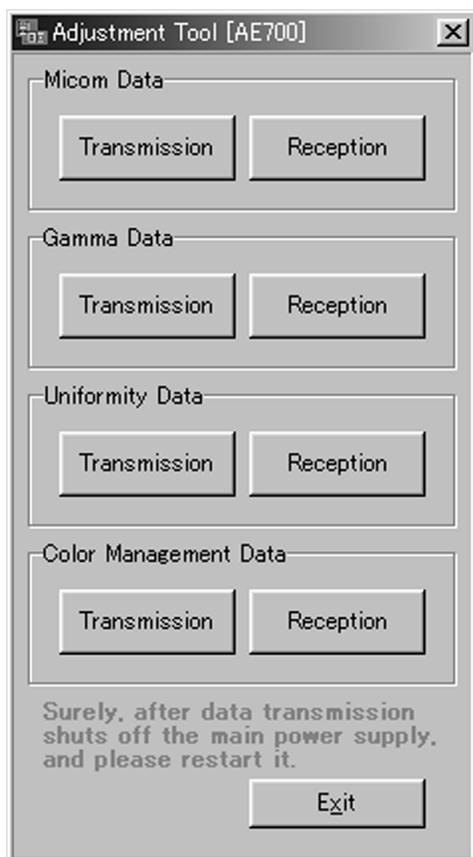
Data:

Displays the data transmission/reception menu.

Adjustment:

Displays the adjustment menu.

7.6.4. Data Transmission/Reception Menu



7.6.4.1. Explanation of Buttons

Microm Data Transmission:

Reads the microcomputer data from the file and transmits it to the projector.

Microm Data Reception:

Receives the microcomputer data from the projector and writes it in the file.

Gamma Data Transmission:

Reads the gamma data from the file and transmits it to the projector.

Gamma Data Reception:

Receives the gamma data from the projector and writes it in the file.

Uniformity Data Transmission:

Reads the color unevenness correction data from the file and transmits it to the projector.

Uniformity Data Reception:

Receives the color unevenness correction data from the projector and writes it in the file.

Color Management Data Transmission:

Reads the color management data from the file and transmits it to the projector.

Color Management Data Reception:

Receives the color management data from the projector and writes it in the file.

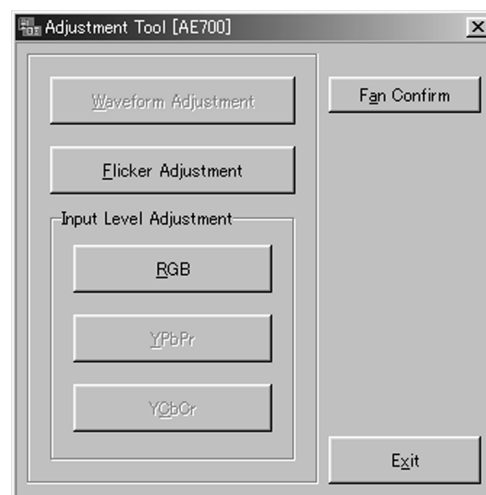
Exit:

Exits this application.

7.6.4.2. Receiving and sending of the data

Click a target button and specify a file name.

7.6.5. Adjustment Menu



7.6.5.1. Explanation of Buttons

Flicker Adjustment:

Displays Flicker Adjustment menu.

Input Level Adjustment [RGB]:

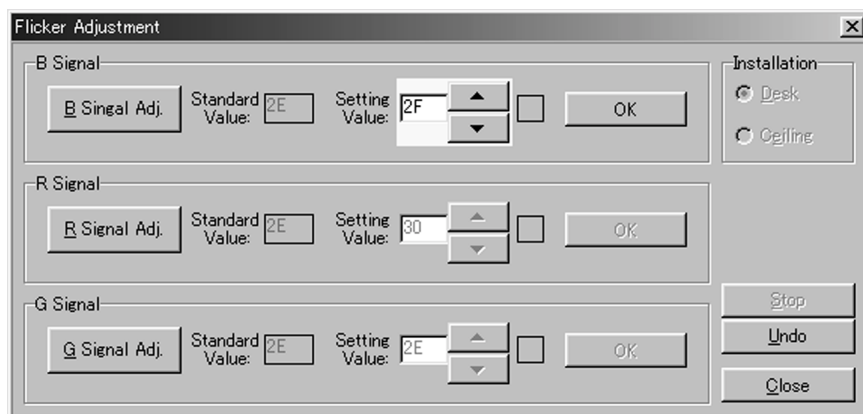
Displays Input Level Adjustment (RGB) menu.

Exit:

Exits this application.

7.7. Flicker Adjustment

7.7.1. Adjustment Menu



7.7.2. Explanation of Buttons

Desk:

Sets the installation mode to the desk setting and receive the current data. (This button is usually set for its inactive mode.)

Ceiling:

Sets the installation mode to the ceiling setting and receive the current data. (This button is usually set for its inactive mode.)

B Signal Adj.:

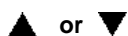
Sets the test signal mode to the B-signal and allows the "▲", "▼" and "OK" buttons of the B-signal to become active.

R Signal Adj.:

Sets the test signal mode to the R-signal and allows the "▲", "▼" and "OK" buttons of the R-signal to become active.

G Signal Adj.:

Sets the test signal mode to the G-signal and allows the "▲", "▼" and "OK" buttons of the G-signal to become active.



Changes the setting value and transmits its data. (The 8 and 2 keys on the keyboard have the same functions.) If releasing the mouse or key after pressing it continuously, the data is transmitted once. The variable setting value is enclosed in a box and using the TAB or SPACE key allows the move of the box.

OK:

Determines the setting value and stores its data in the EEPROM. (The ENTER key on the keyboard has the same function.) The item having two or more kinds of setting values is processed two or more items. Clicking this button or pressing ENTER key changes the color of the text "OK" to cyan (light blue). If changing the setting value using the "▲" or "▼" button or the 8 or 2 key, its color returns to black.

Stop:

Discontinues the communication. (This button is usually set

for its inactive mode.)

Undo:

Returns the setting value to its original state and transmits its data. The color of the text "OK" returns to black.

Close:

Closes this menu.

7.7.3. Equipment to be used

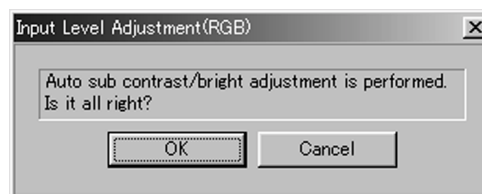
PC, Software for Adjustment

7.7.4. Adjustment Procedure

1. Display Flicker Adjustment menu.
2. Click "B Signal Adj," and the blue flicker adjustment pattern will be displayed.
3. Minimize the flicker while observing the projected pattern.
4. Click "R Signal Adj," and the red flicker adjustment pattern will be displayed.
5. Minimize the flicker while observing the projected pattern.
6. Click "G Signal Adj," and the green flicker adjustment pattern will be displayed.
7. Minimize the flicker while observing the projected pattern.

7.8. Input Level Adjustment (RGB)

7.8.1. Adjustment Menu



7.8.2. Explanation of Buttons

OK:

Executes automatic sub contrast and sub brightness adjustments, then closes this dialog.

Cancel:

Cancels this menu.

7.8.3. Equipment to be used

PC, RGB Signal Generator, Software for Adjustment

7.8.4. Adjustment Procedure

1. Display Input Level Adjustment (RGB) menu.
2. Input a window pattern signal to PC IN (RGB) connector.

Note:

- Use approx. 15 % window pattern as follows.

Black background (screen width) : White window
width = 2 : 1

Black background (screen height) : White window
height = 3 : 1

3. Click the OK button.

8 Troubleshooting

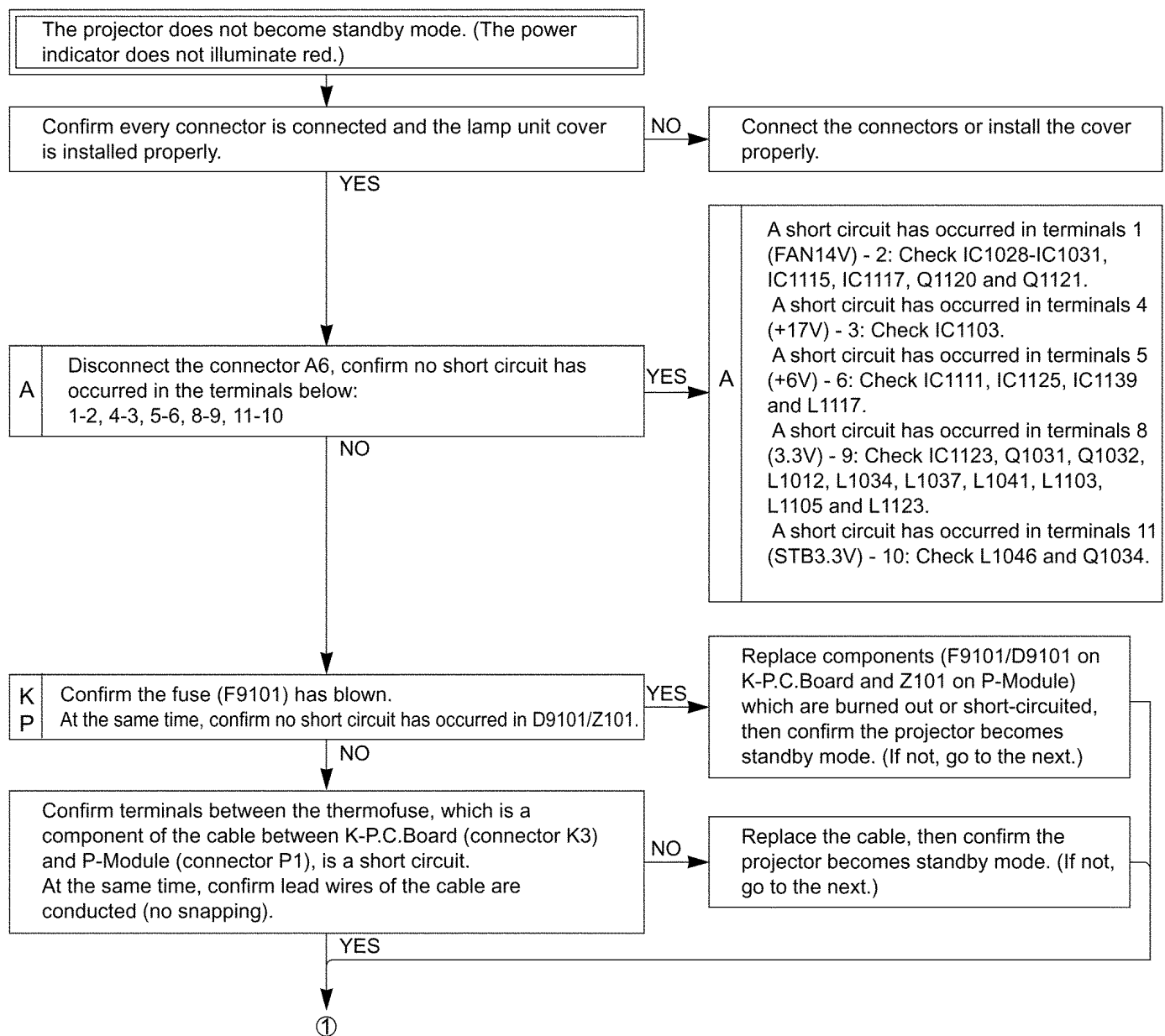
The letters in the left of the inspection items indicate the P.C.Boards or Modules related to their respective descriptions.

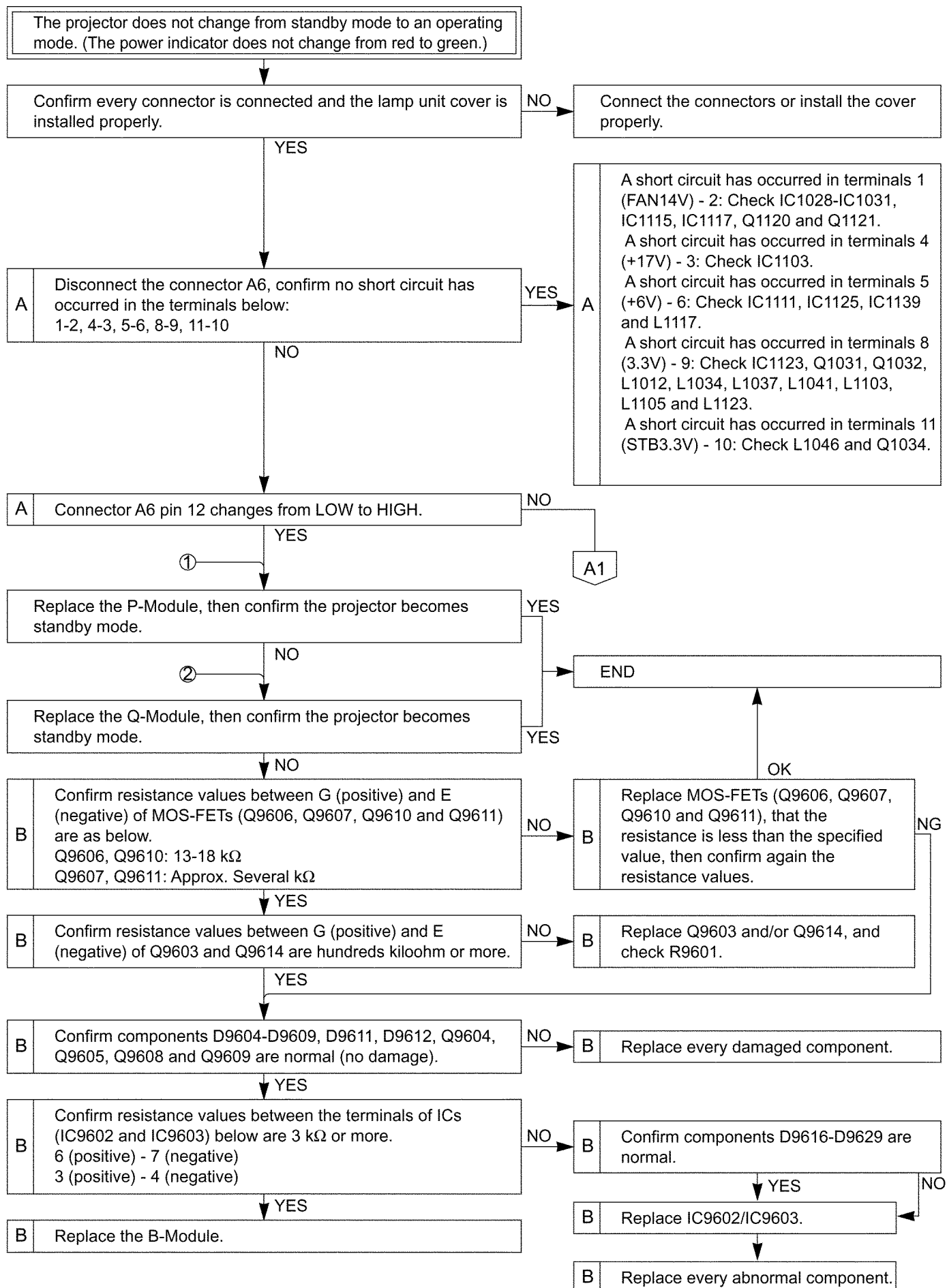
Note: (A)

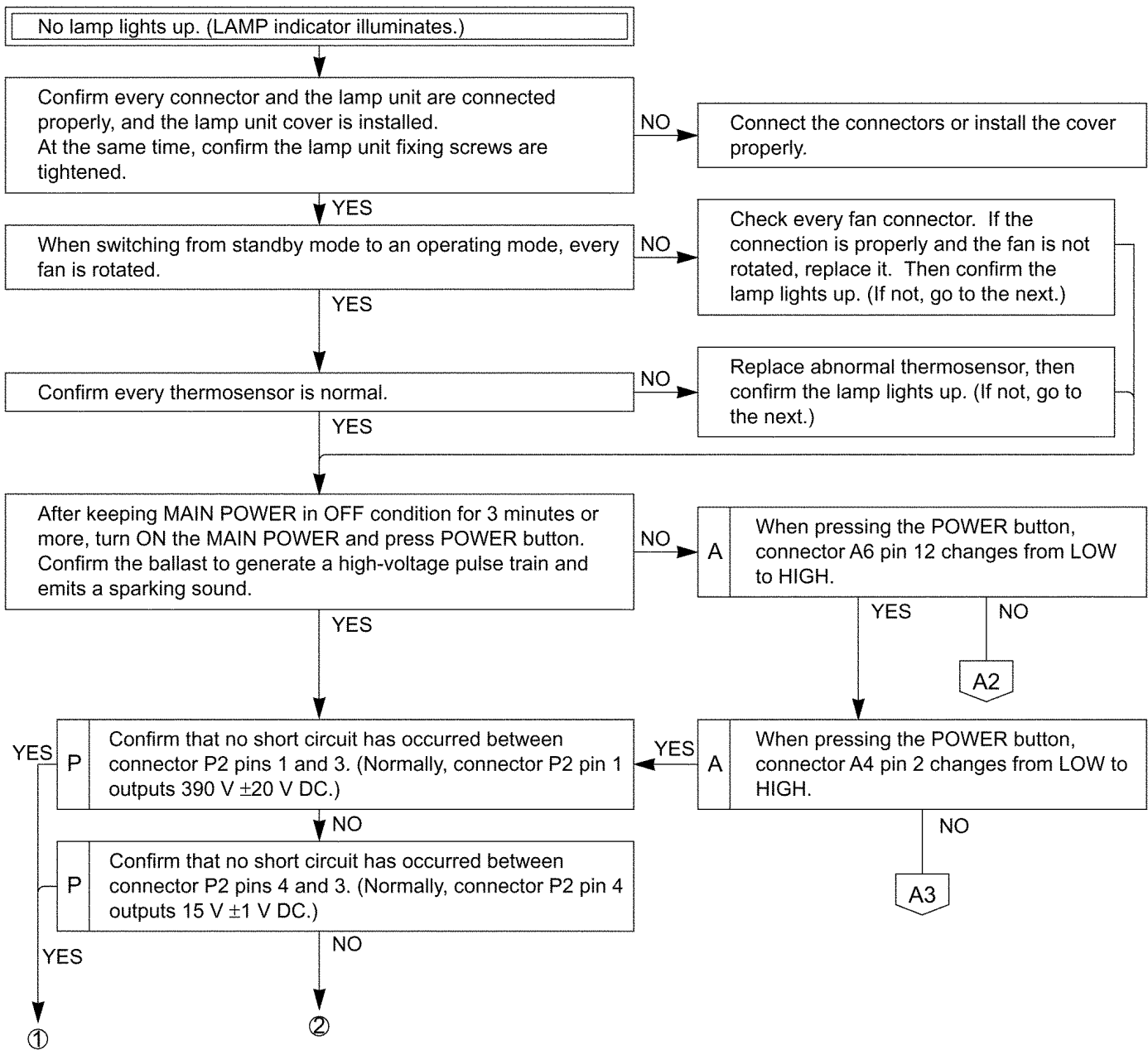
The letter of the alphabet indicates the P.C.Board or Module name.

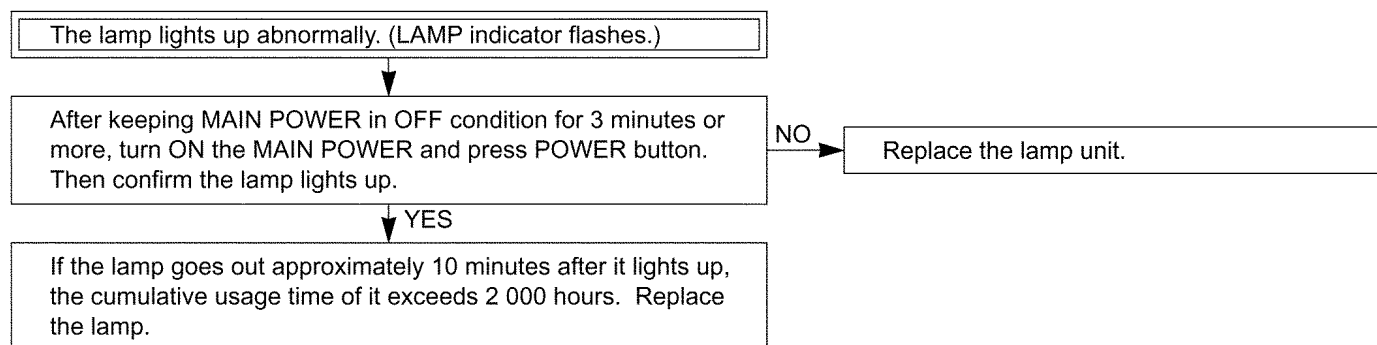
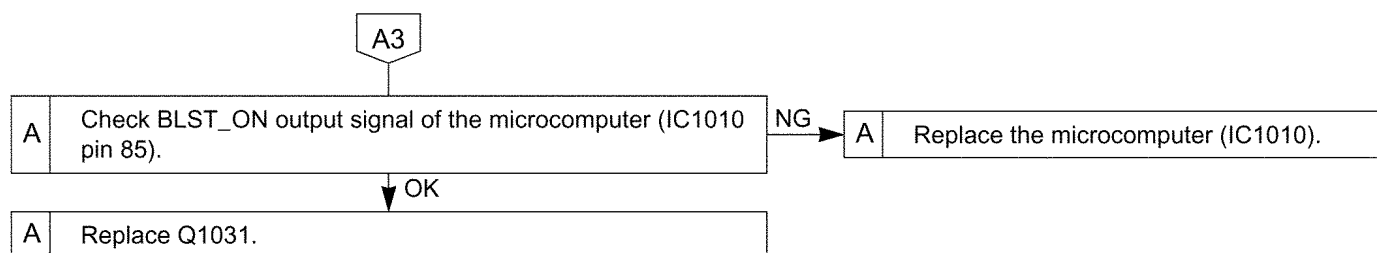
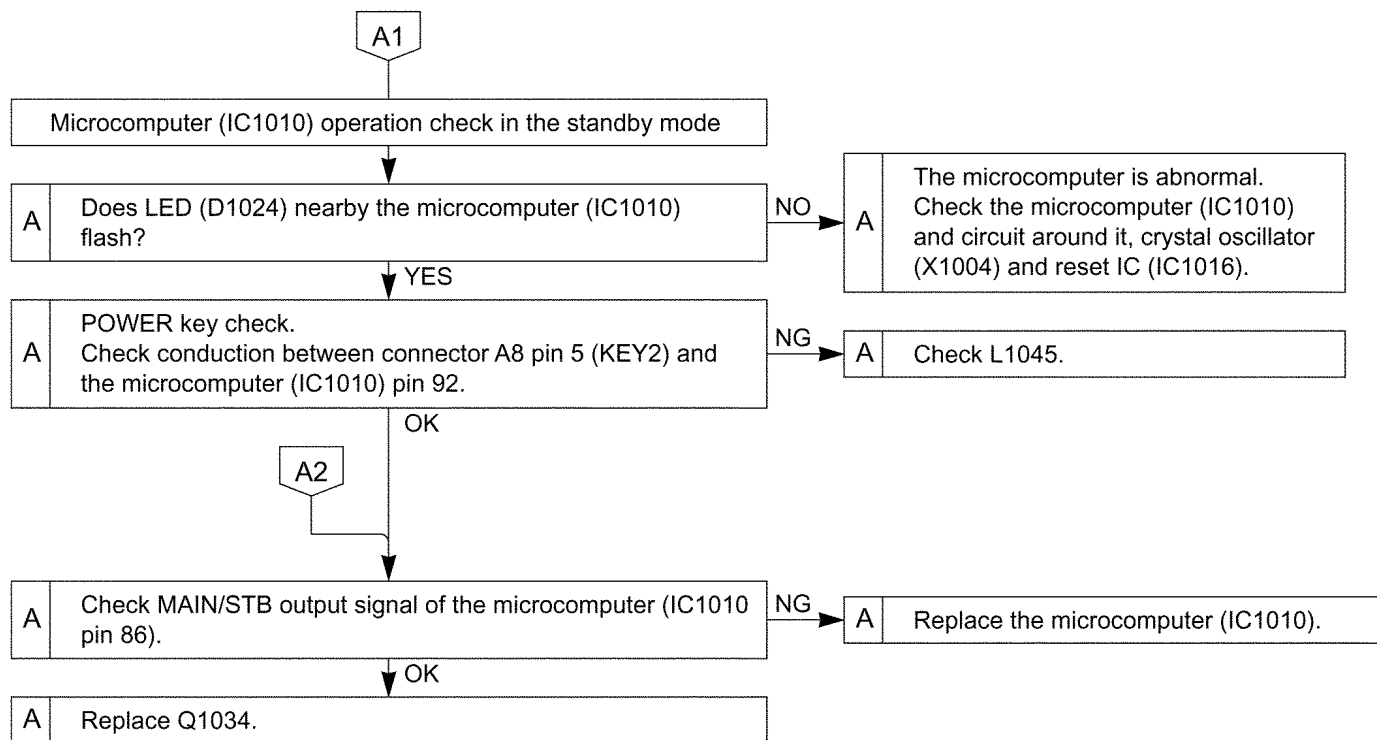
(Example) A: A-P.C.Board, B: B-Module

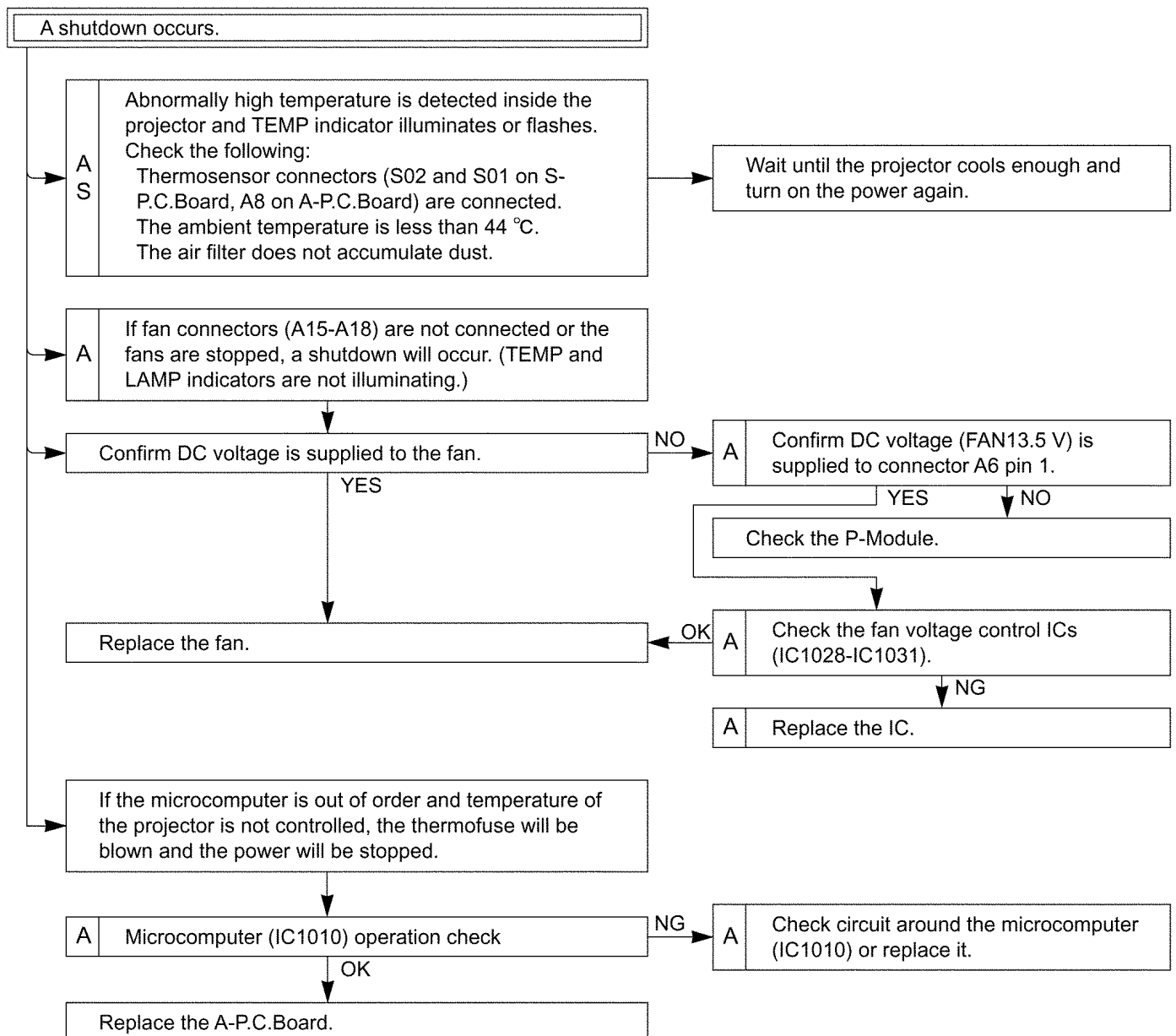
If replacing A-P.C.Board (assembly), read the ROM data from the old P.C.Board and write it in the new one according to the section 7.6. "Software for Adjustment". At this time, if the readout from the old P.C.Board does not succeed, remove IC1011 and IC1017 from the old P.C.Board and install them on the new one. If replacing A-P.C.Board (assembly), adjust RGB Input Level according to the chapter 7.8. "Input Level Adjustment (RGB)".

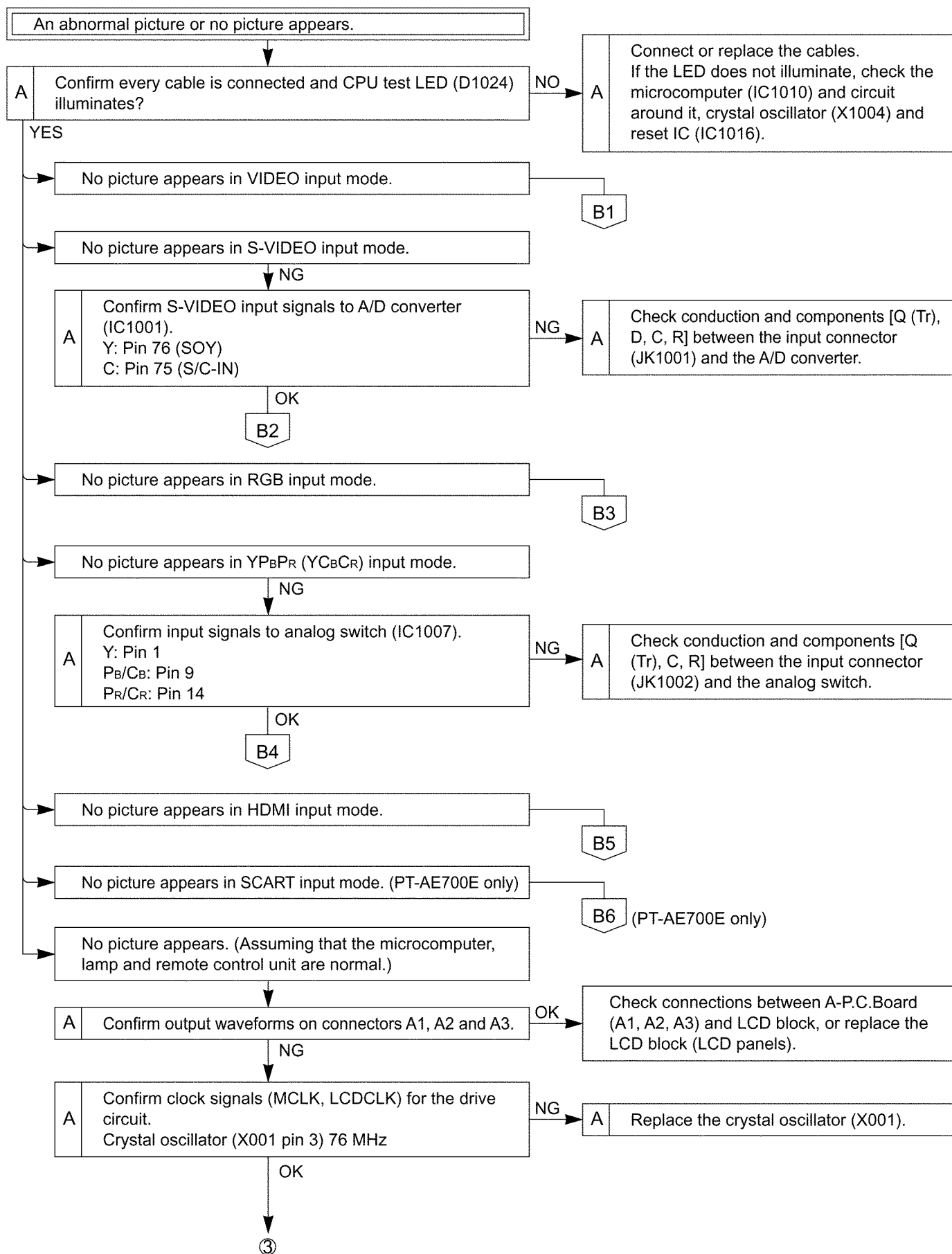


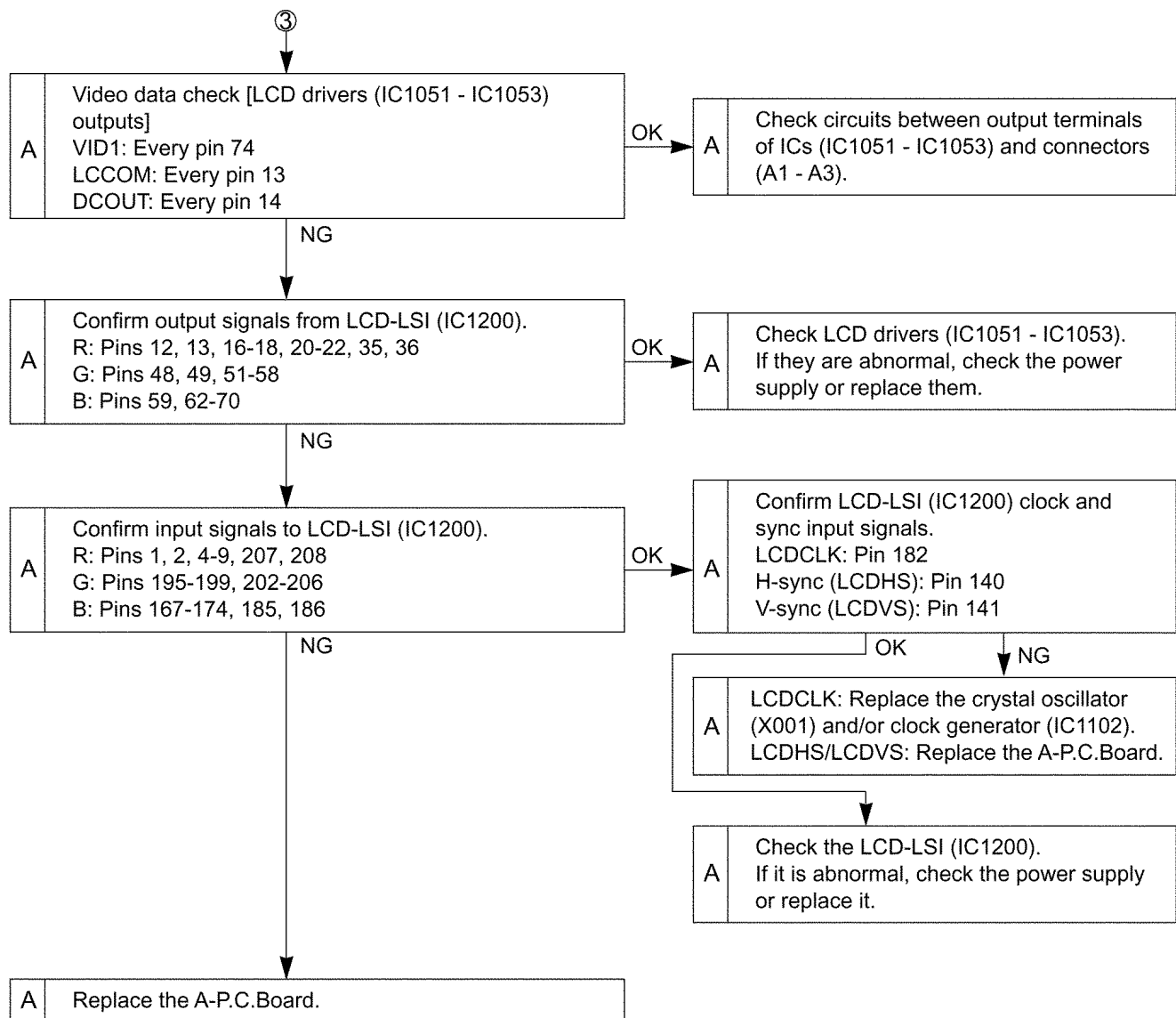


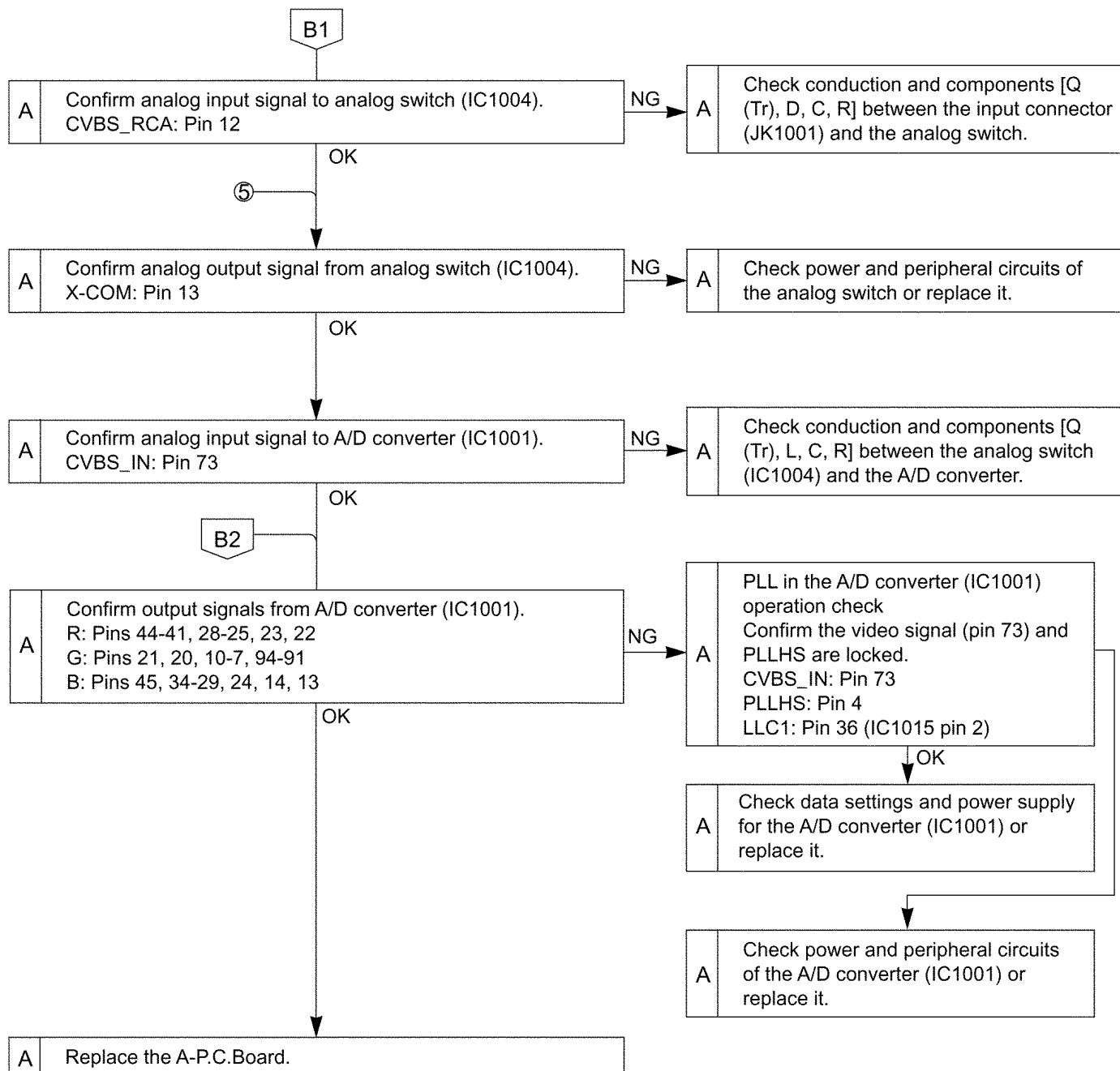


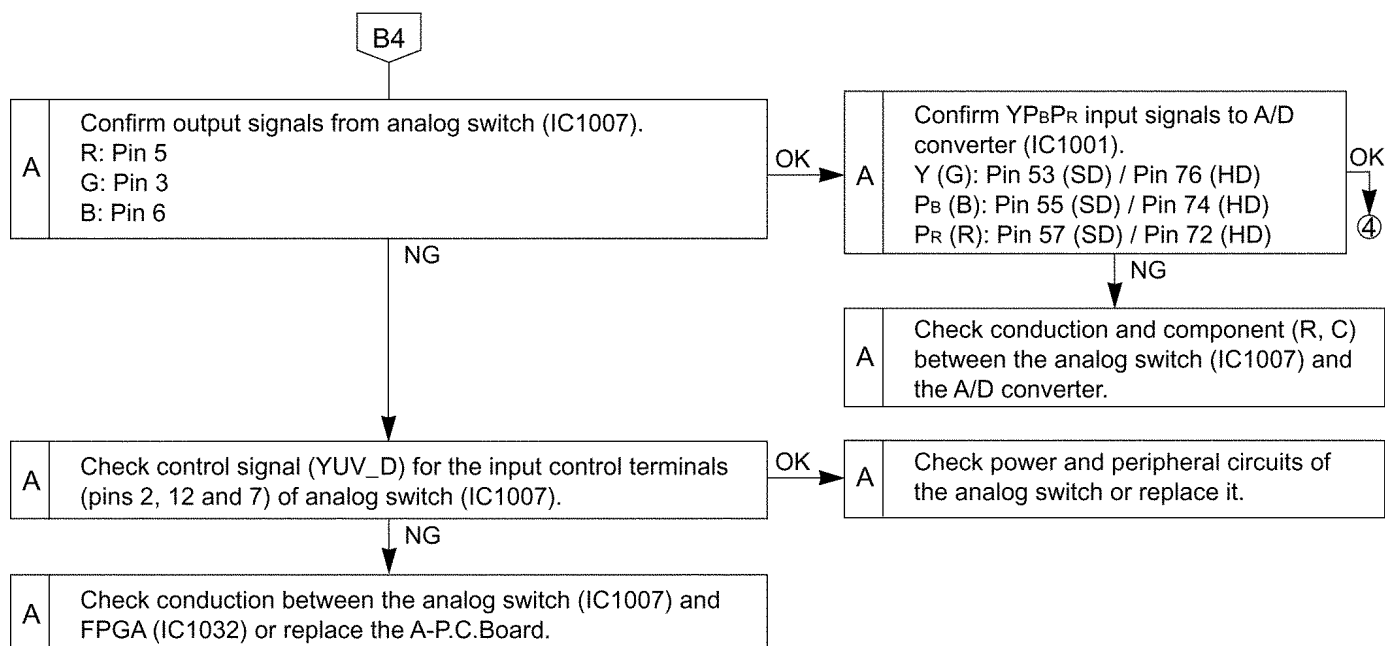
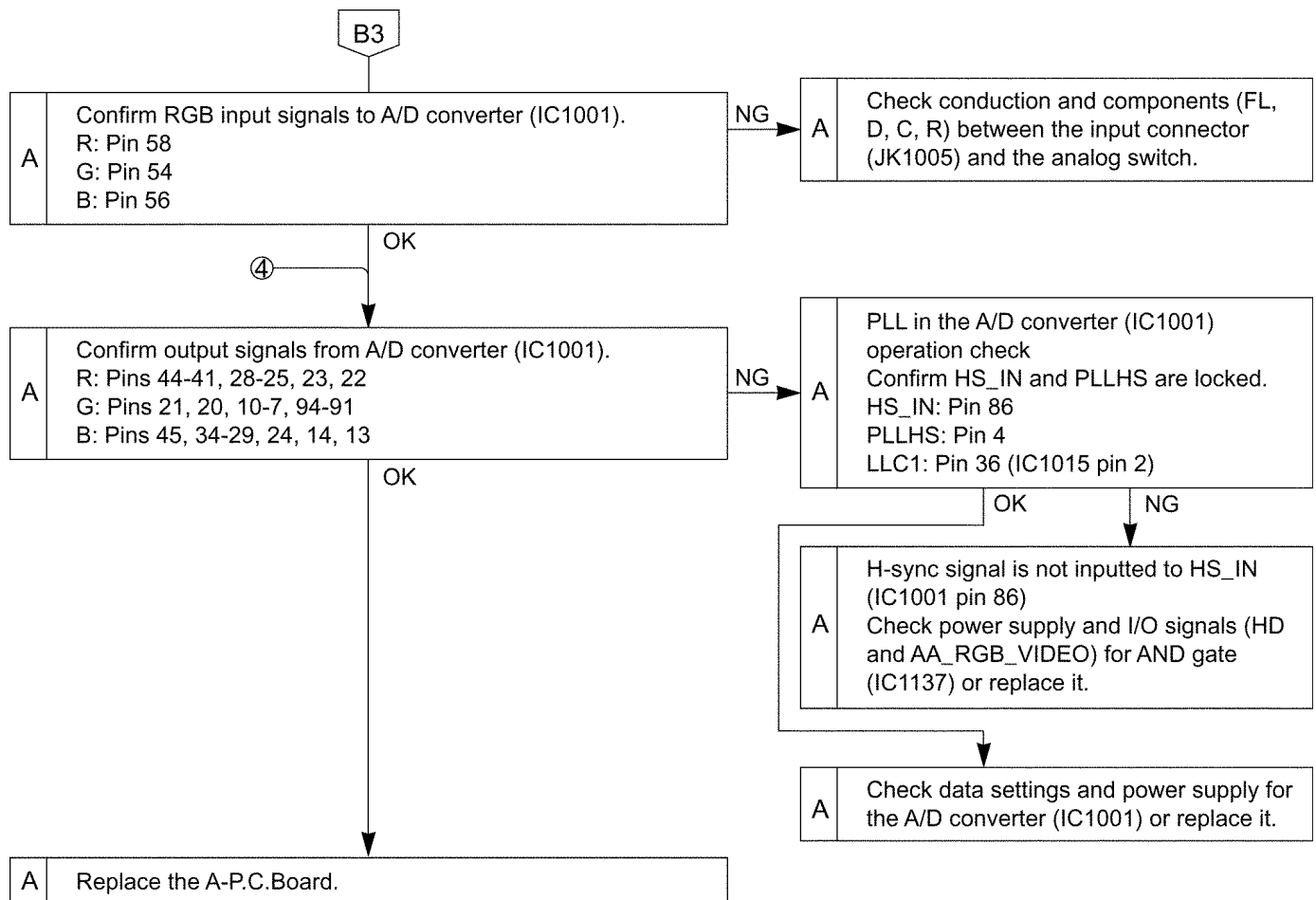


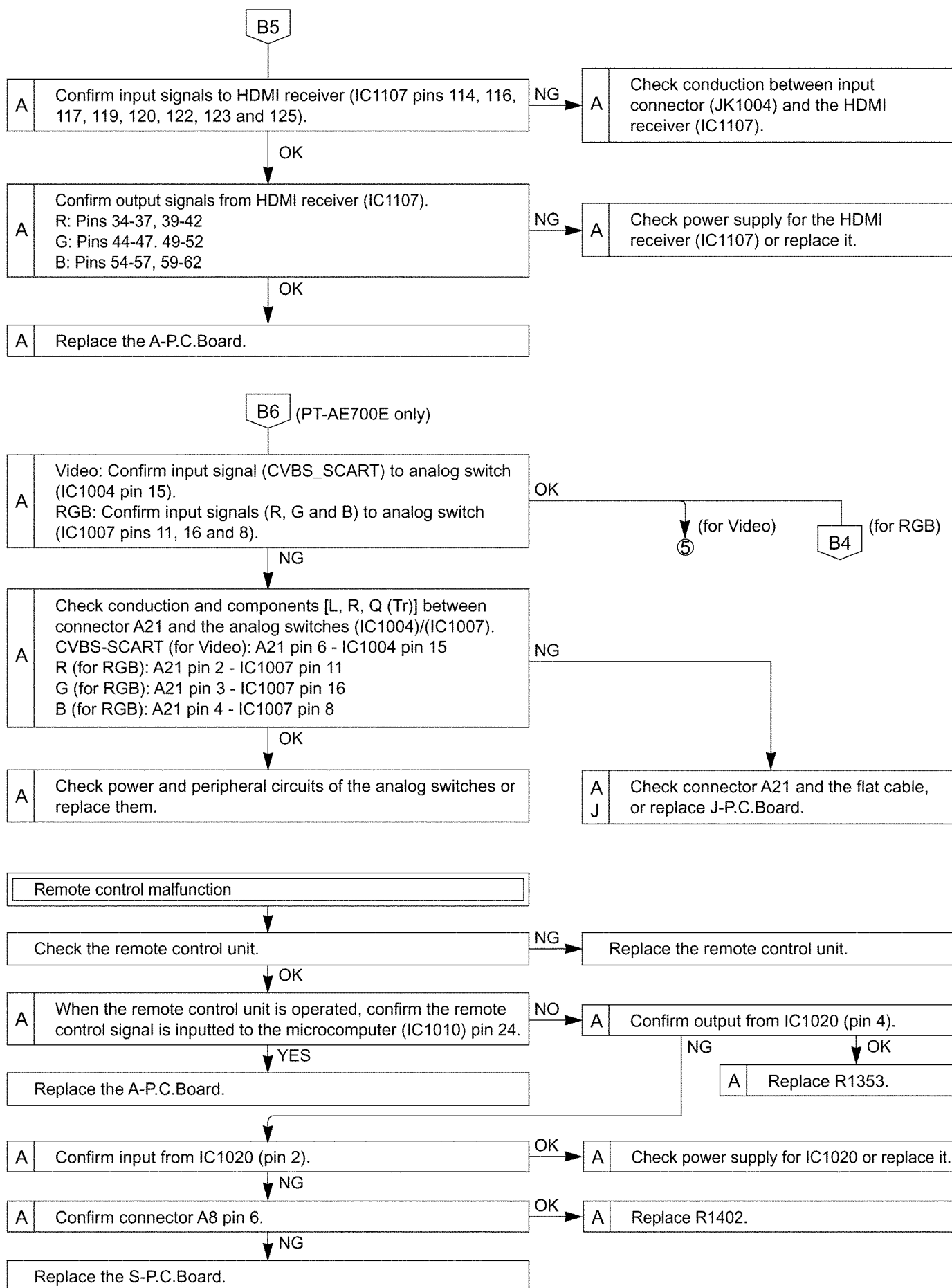








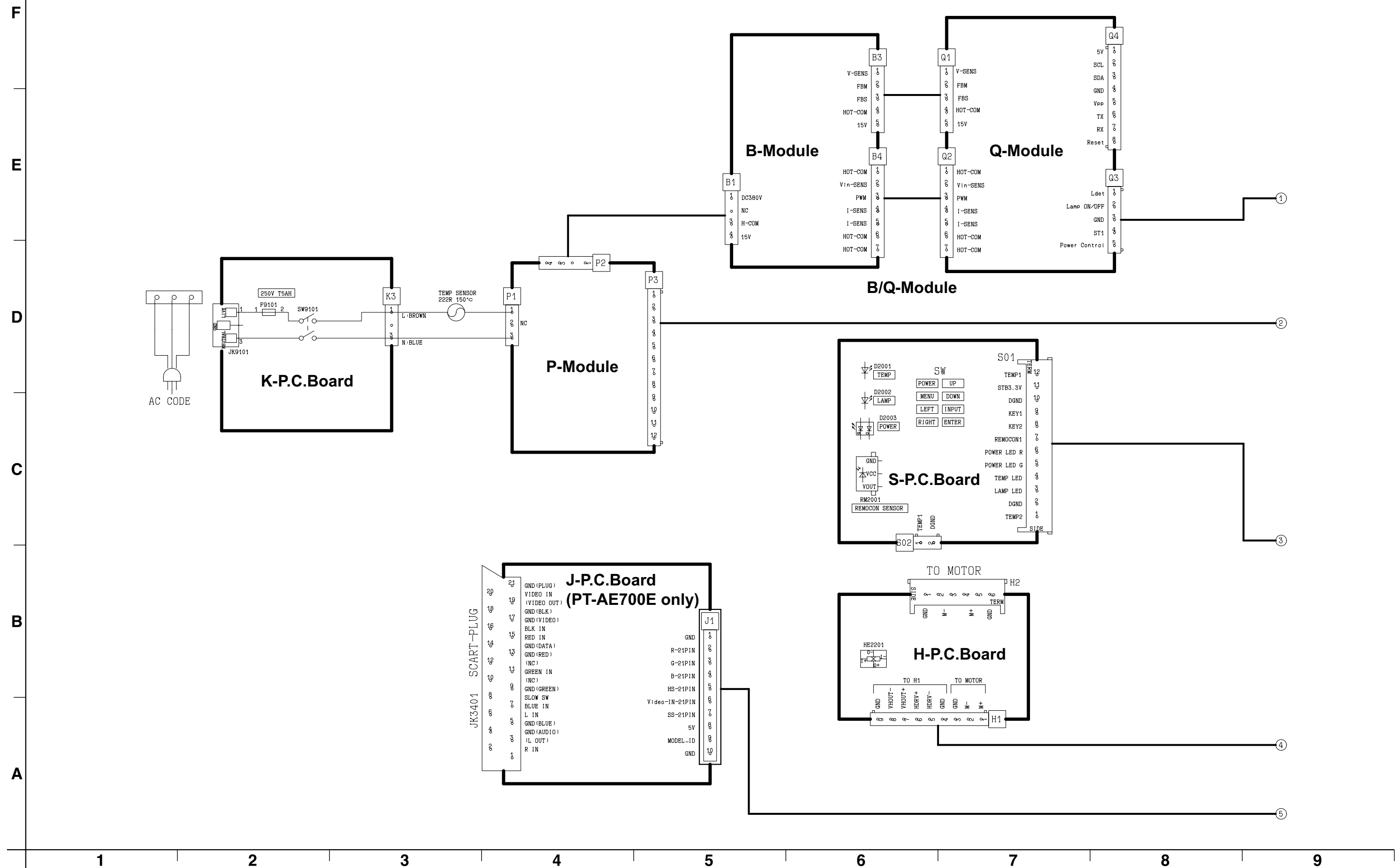




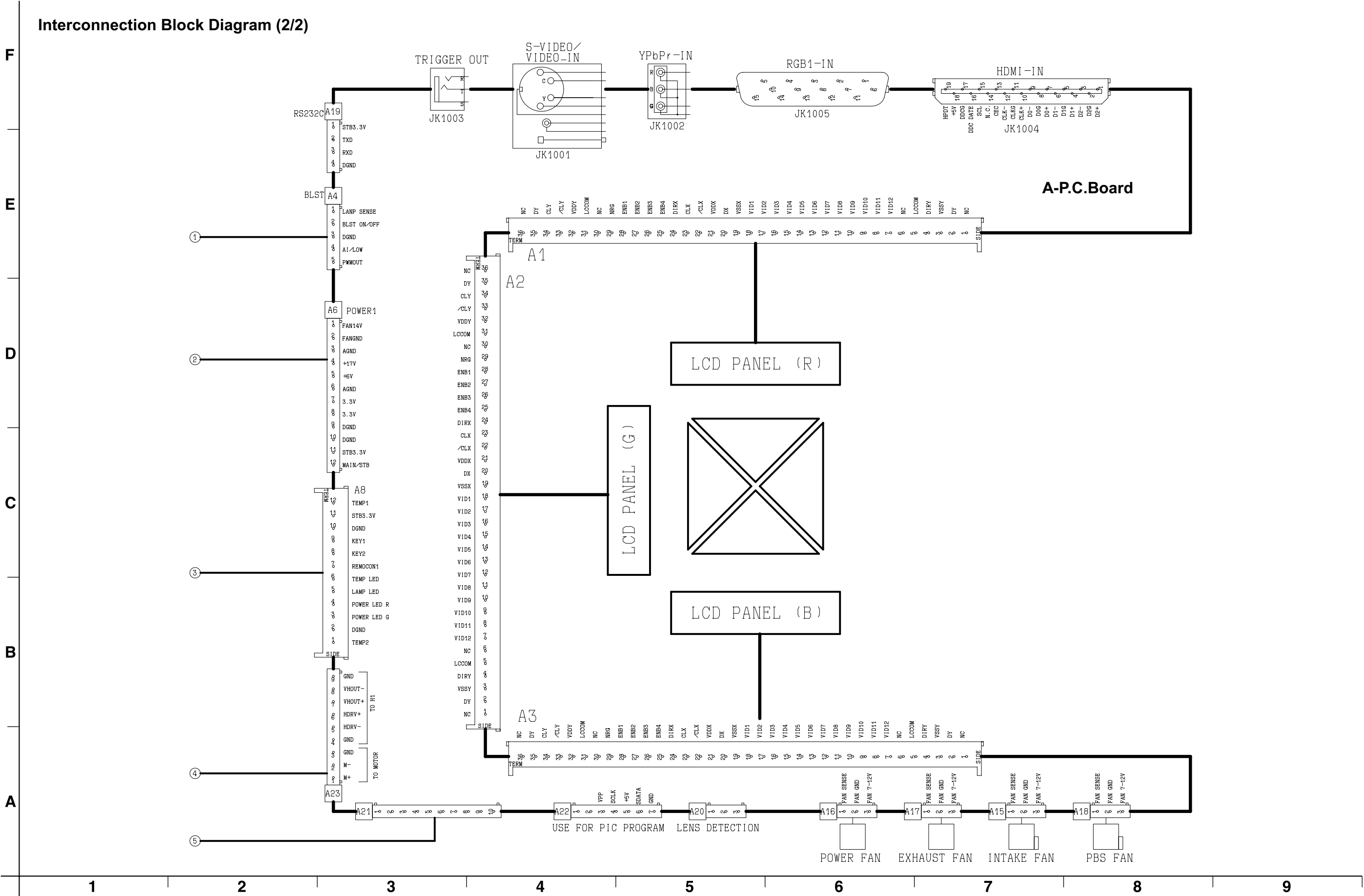
9 Interconnection Block Diagram

9.1. Interconnection Block Diagram (1/2)

Interconnection Block Diagram (1/2)

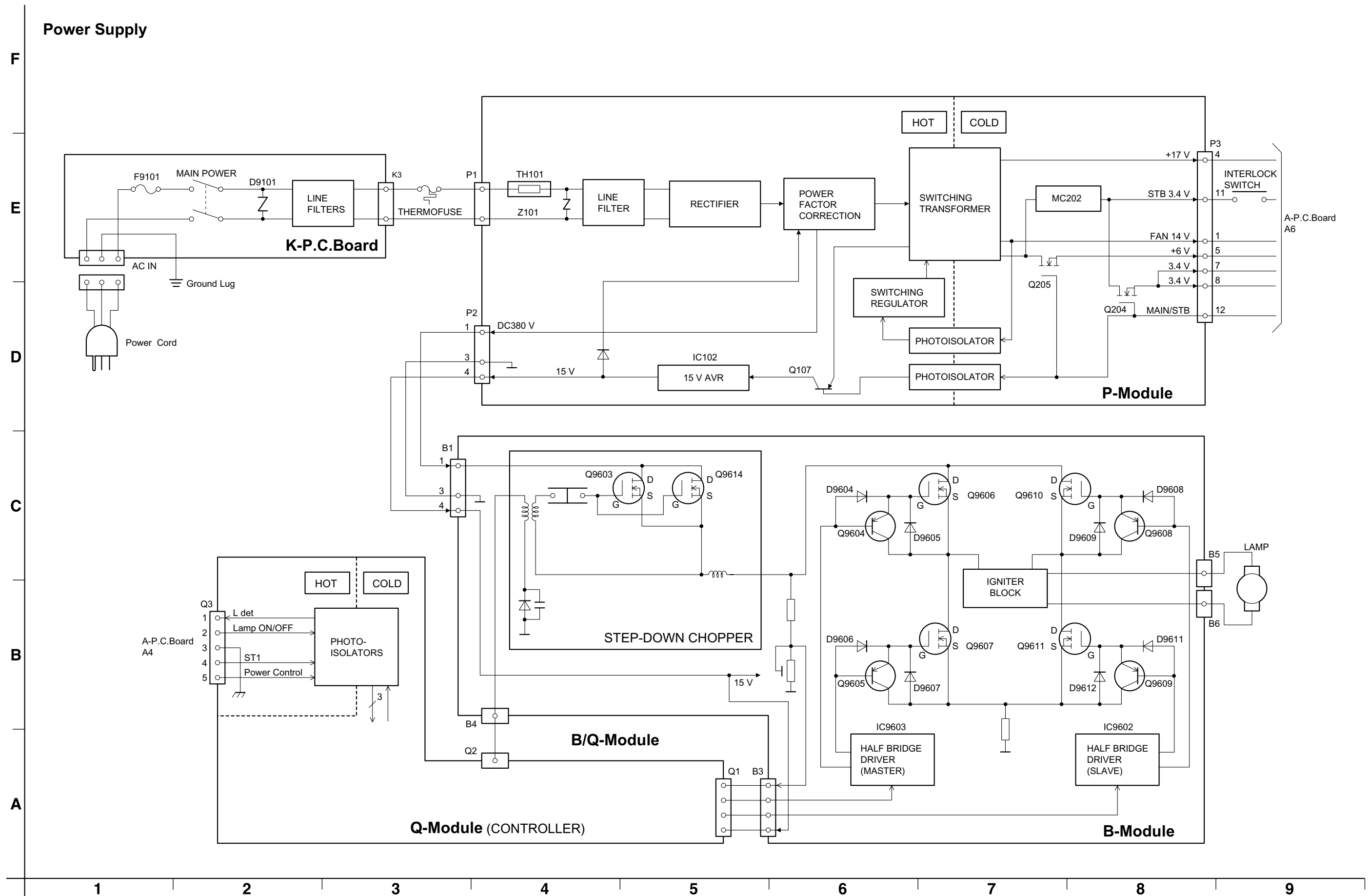


9.2. Interconnection Block Diagram (2/2)

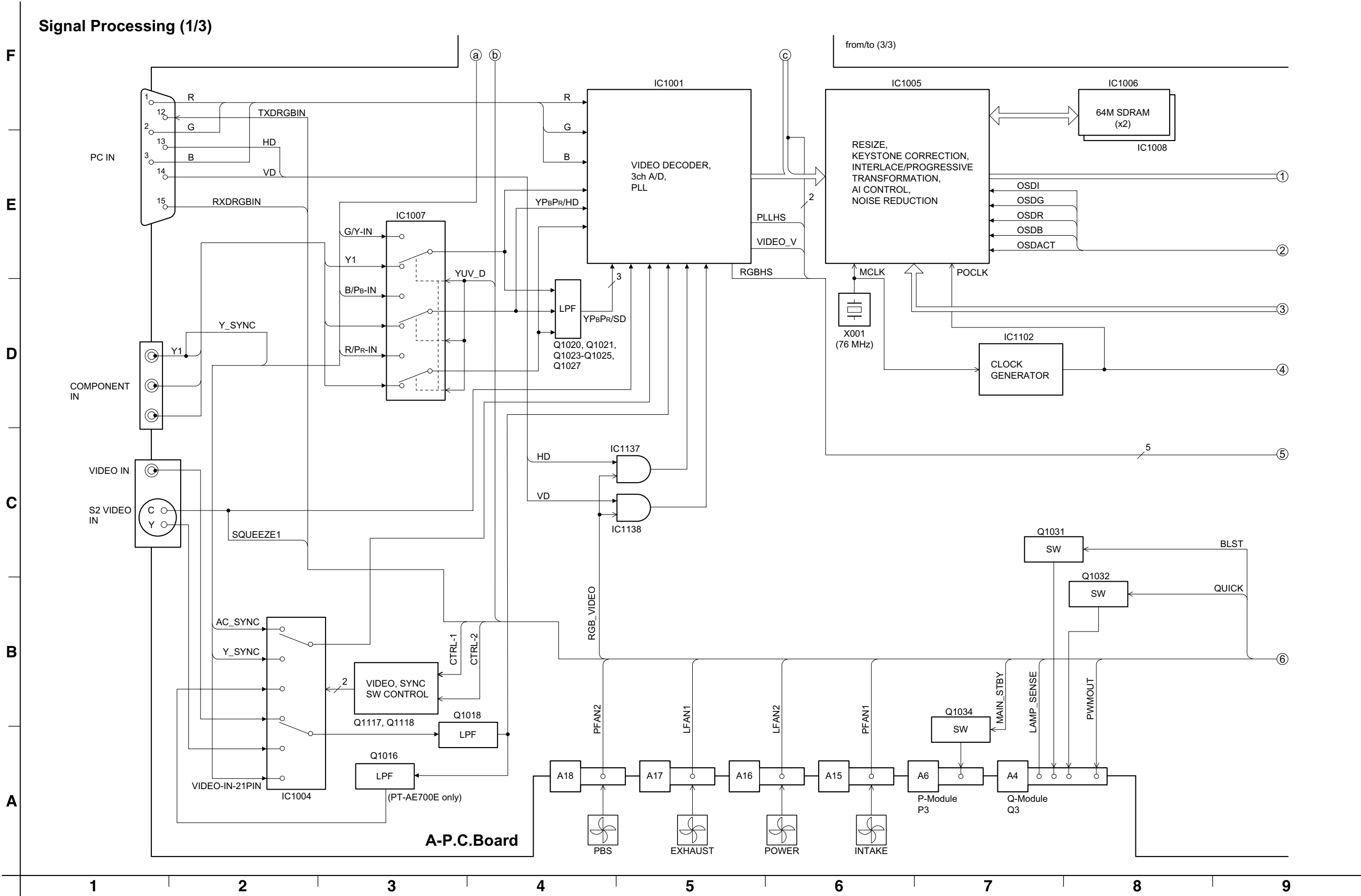


10 Block Diagram

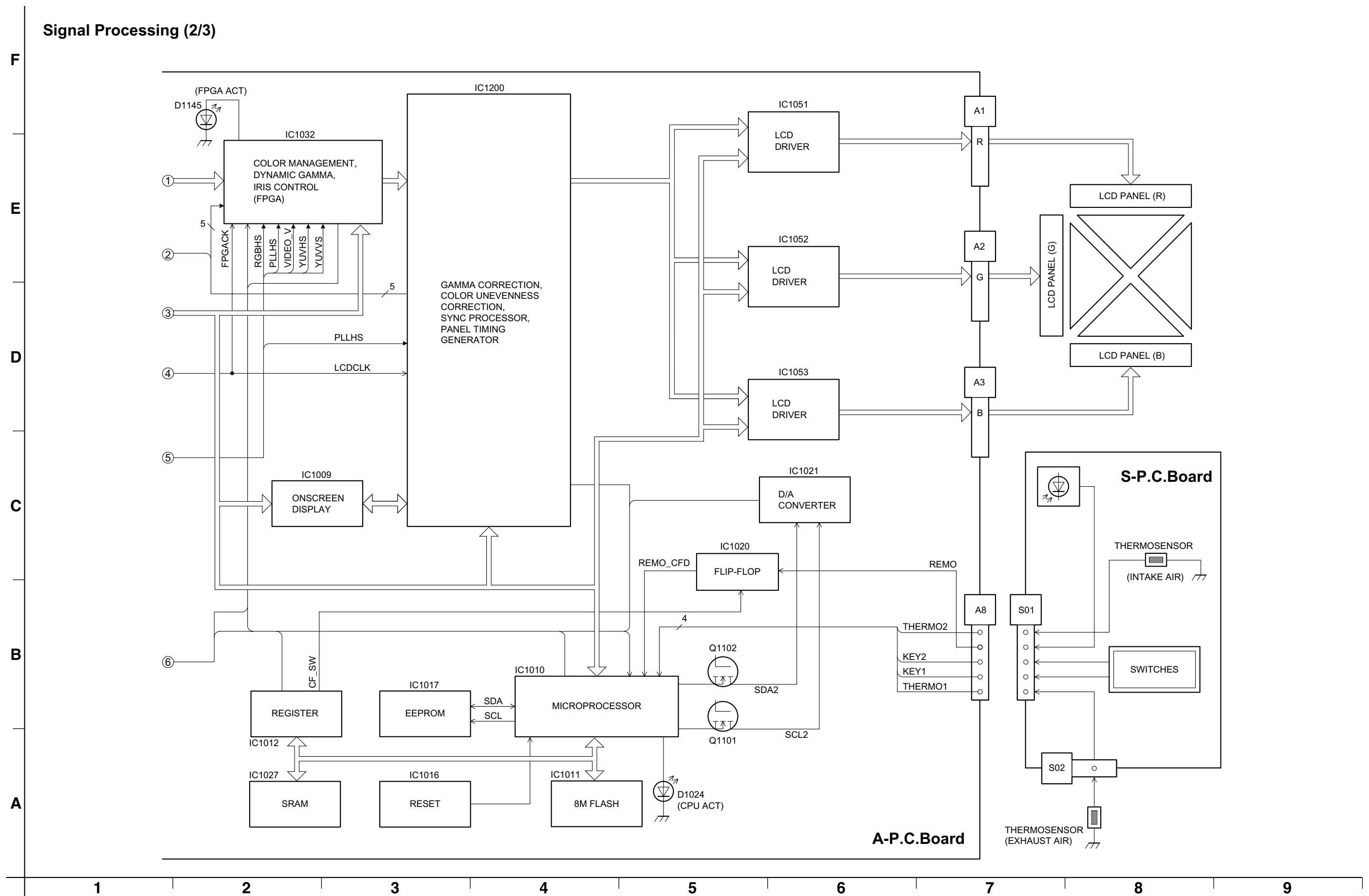
10.1. Power Supply



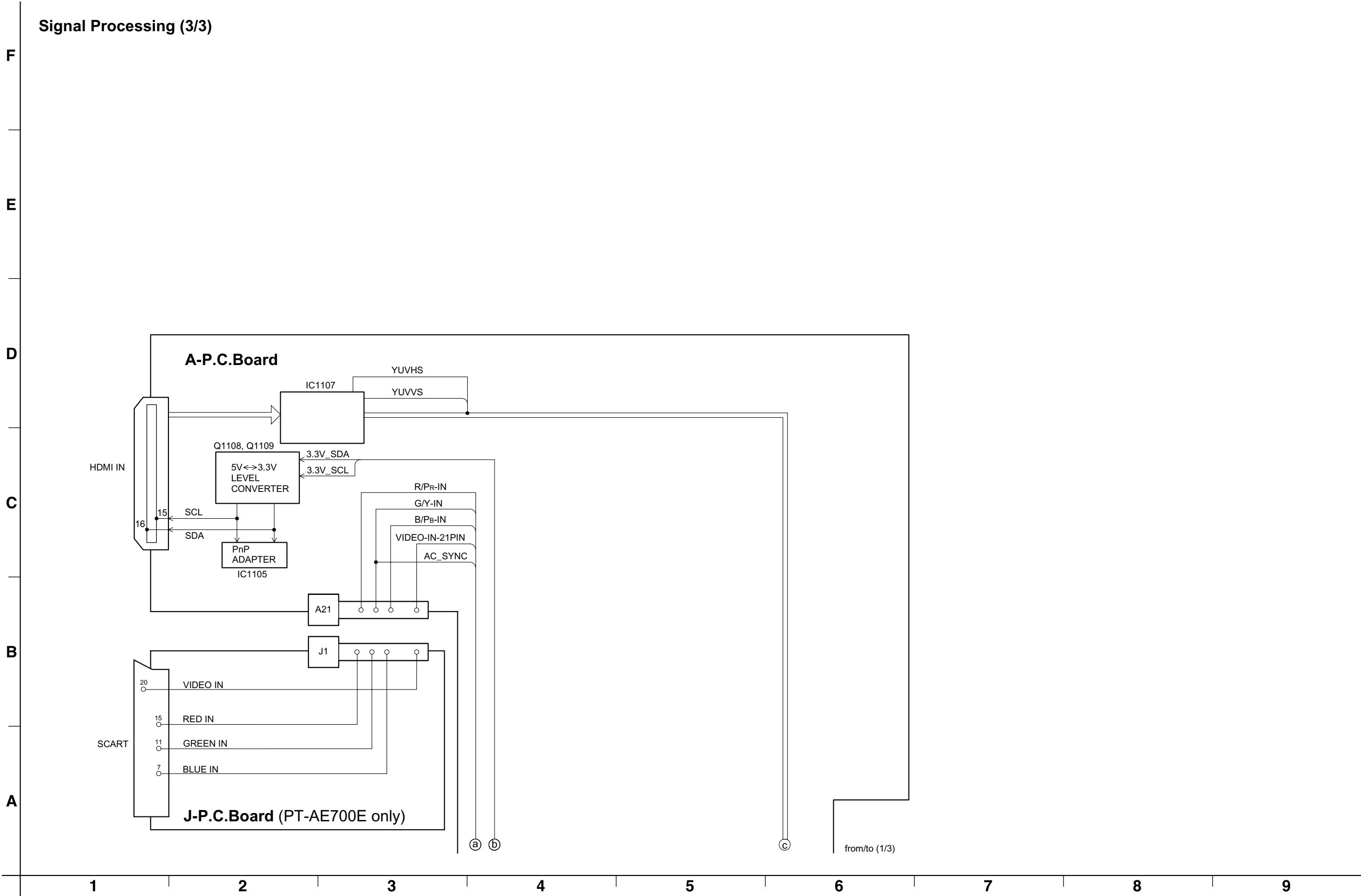
10.2. Signal Processing (1/3)



10.3. Signal Processing (2/3)



10.4. Signal Processing (3/3)



11 Schematic Diagram


Schematic Diagram for Model PT-AE700U

IMPORTANT SAFETY NOTICE

THE SHADED AREA ON THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM FIRE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING, IT IS ESSENTIAL THAT ONLY MANUFACTURER'S SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SHADED AREAS OF THE SCHEMATIC.

Schematic Diagram for Model PT-AE700E


Important Safety Notice

Components identified by the international symbol  have special characteristics important for safety. When replacing any of these components, use only the manufacturer's specified ones.


Notes:

1. Resistor


All the resistors are carbon 1/4W resistors, unless marked as follows: The unit of resistance is an OHM [Ω] (K=1 000 M=1 000 000).


 : Nonflammable

 : Metal Oxide


 : Solid

 : Metal Film


 : Wire Wound


 : Fuse


2. Capacitor


 : Temperature Compensation


 : Electrolytic


 : Polyester

 : Bipolar

 : Metalized Polyester

 : Dipped Tantalum


 : Polypropylene

 : Z-Type

3. Coil

The unit of inductance is a H, unless otherwise noted.





4. Test Point

 : Test Point

5. Voltage Measurement

The voltage is measured by an electronic voltmeter receiving the colorbar signal when all the customer's controls are set to the standard condition.

6. Color code for the links between diagrams and circuit boards

From/To		To/From	Color code
Block diagram		Schematic diagram	Magenta
Schematic diagram		Schematic diagram	Green
Schematic diagram		Circuit boards	Yellow
Schematic diagram		Waveforms	Cyan (Light blue)

7. HOT and COLD indications

The power circuit board contains a circuit area using a separate power supply to isolate the ground connection. The circuit is defined by HOT and COLD indications in the schematic diagram. Take the precautions below:

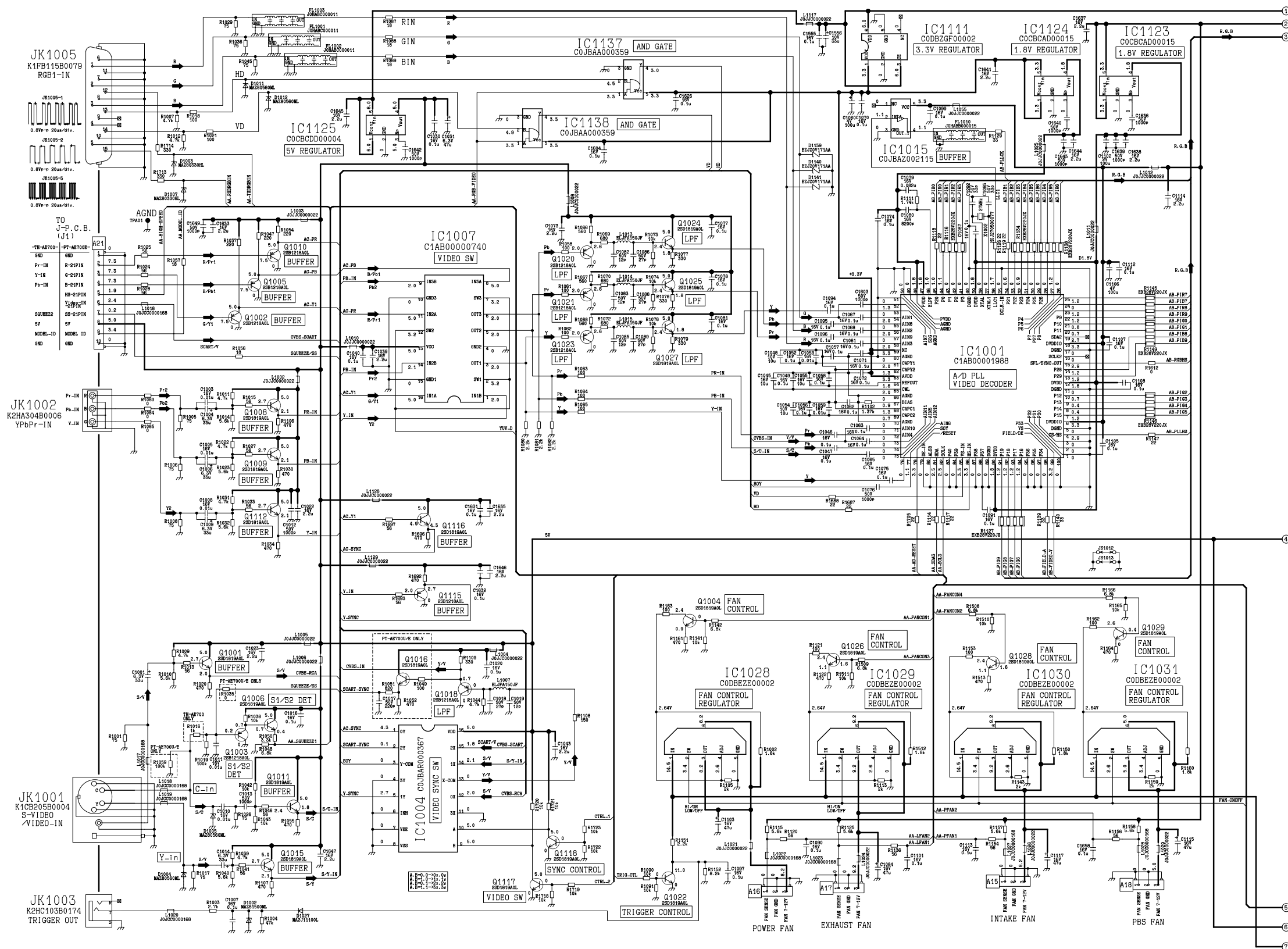
8. This schematic diagram is the latest at the time of printing and the subject to change without notice.

Precautions:

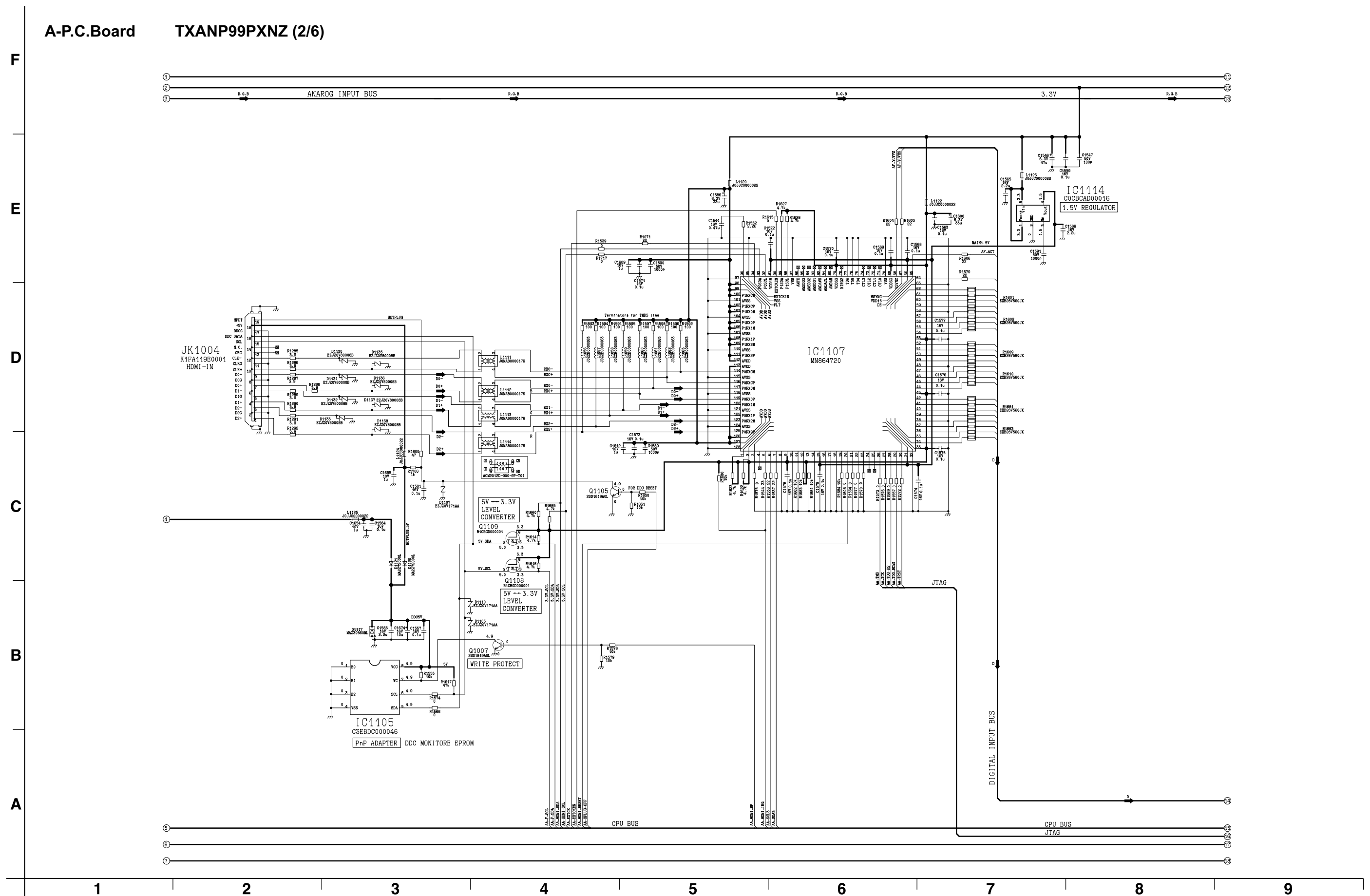
1. NEVER touch the HOT part or the HOT and COLD parts at the same time, or you may get an electric shock.
2. NEVER short-circuit the HOT and COLD circuits, or the fuse may blow and the parts may break.
3. NEVER connect an instrument such oscilloscope to the HOT and COLD circuit simultaneously, or the fuse may blow. Connect the ground of instruments to the ground of the circuit being measured.
4. MAKE SURE to unplug the power cord from the power outlet before removing the chassis.

11.1. A-P.C.Board (1/6)

A-P.C.Board TXANP99PXNZ (1/6)

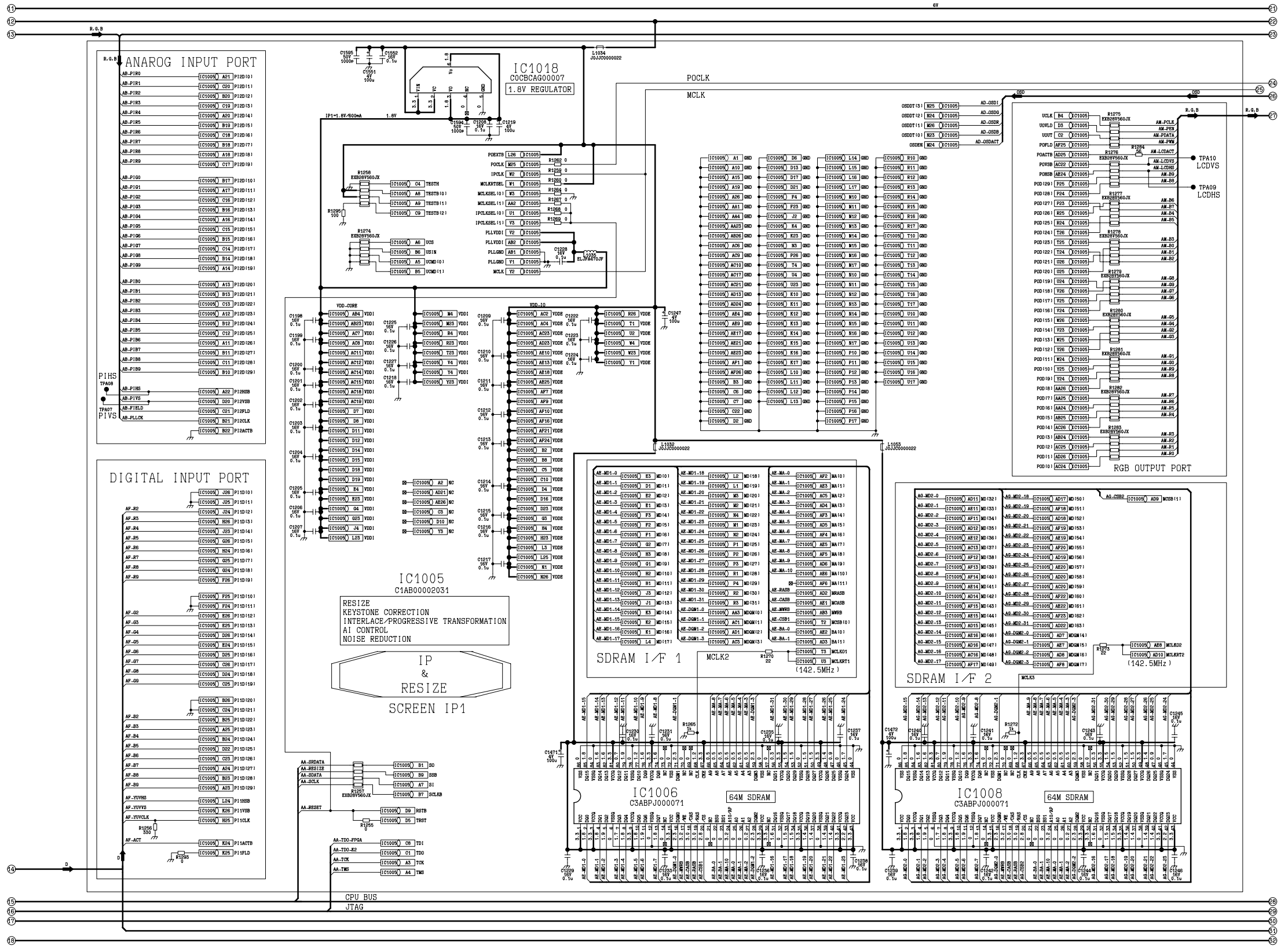


11.2. A-P.C.Board (2/6)



11.3. A-P.C.Board (3/6)

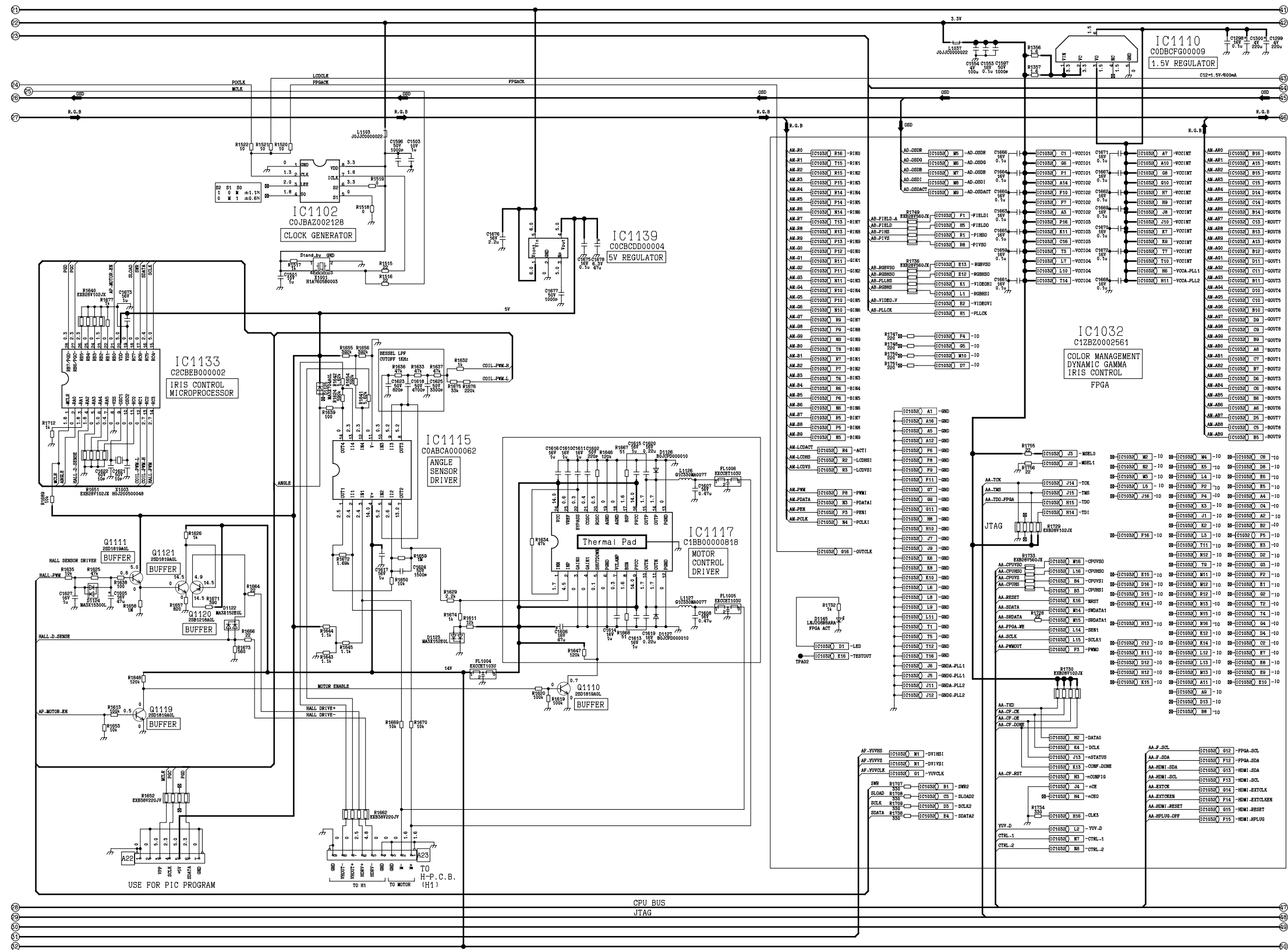
A-P.C.Board TXANP99PXNZ (3/6)



11.4. A-P.C.Board (4/6)

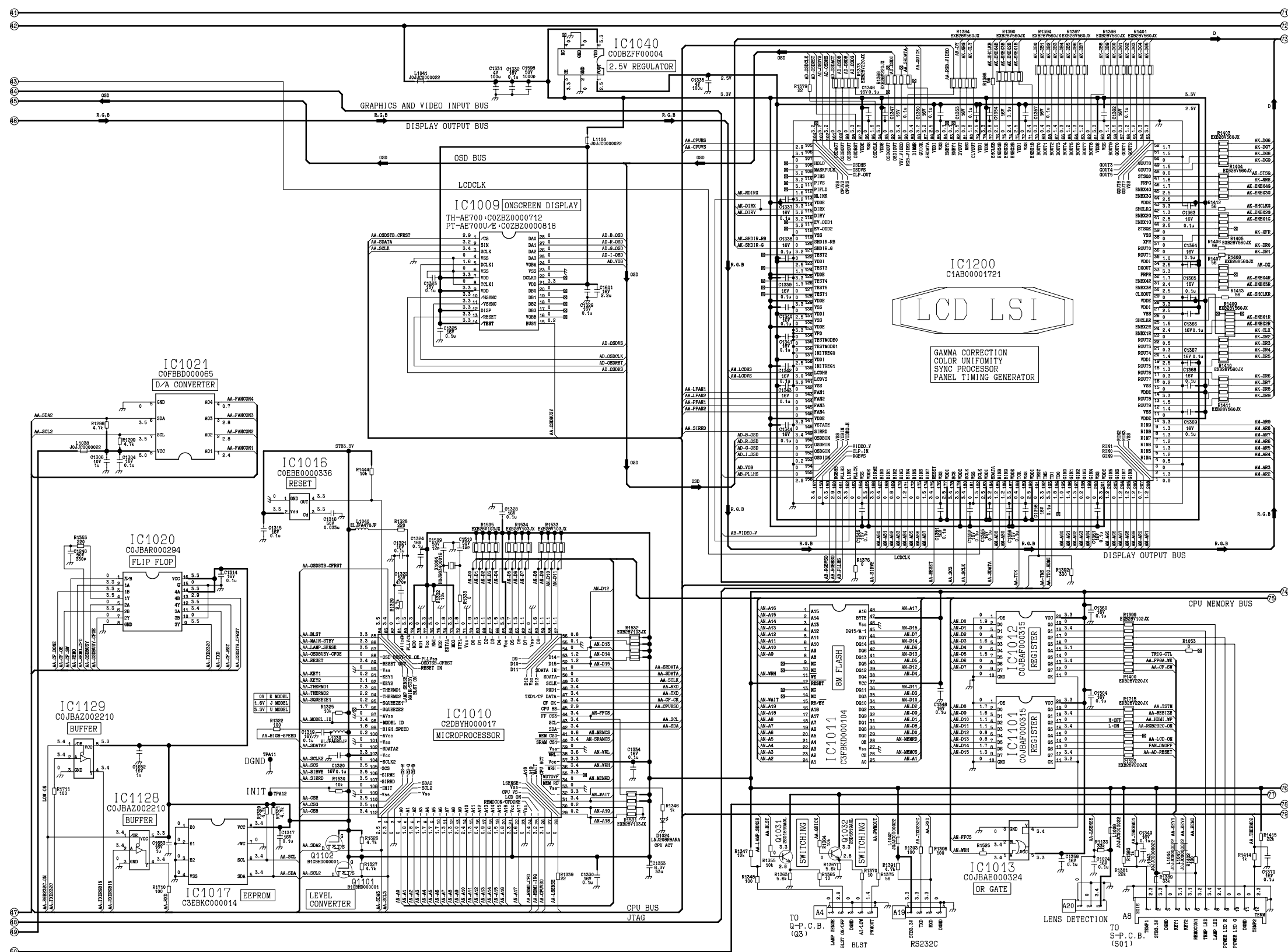
A-P.C.Board

TXANP99PXNZ (4/6)



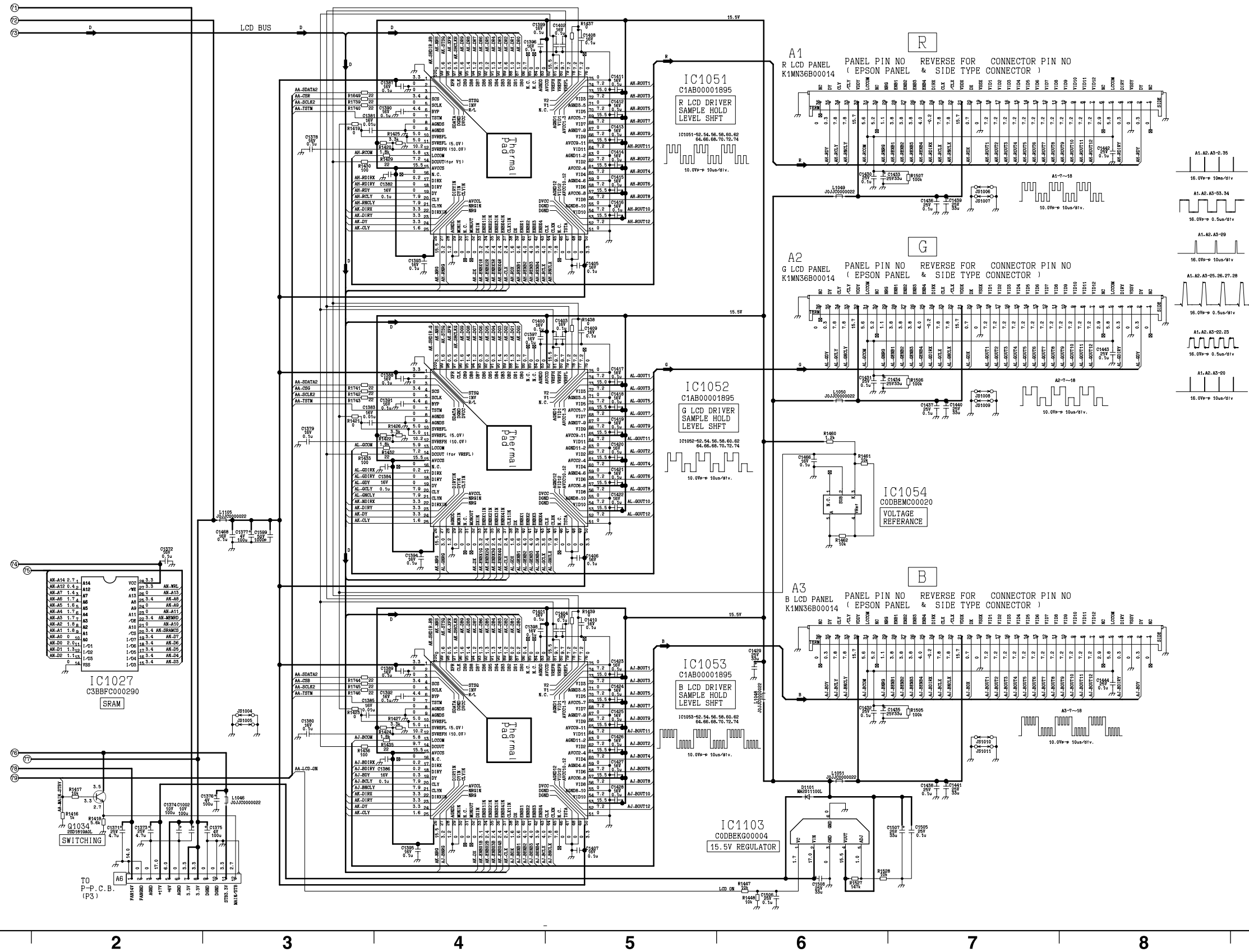
11.5. A-P.C.Board (5/6)

A-P.C.Board TXANP99PXNZ (5/6)



11.6. A-P.C.Board (6/6)

A-P.C.Board TXANP99PXNZ (6/6)



11.7. K-P.C.Board, S-P.C.Board, H-P.C.Board, J-P.C.Board

F

E

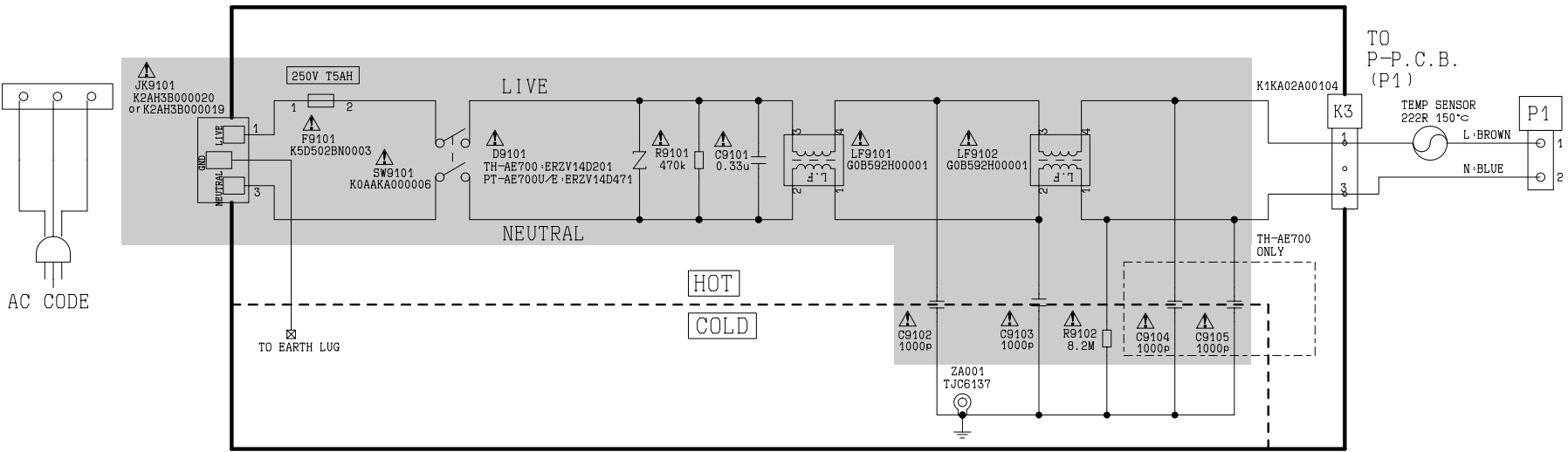
D

C

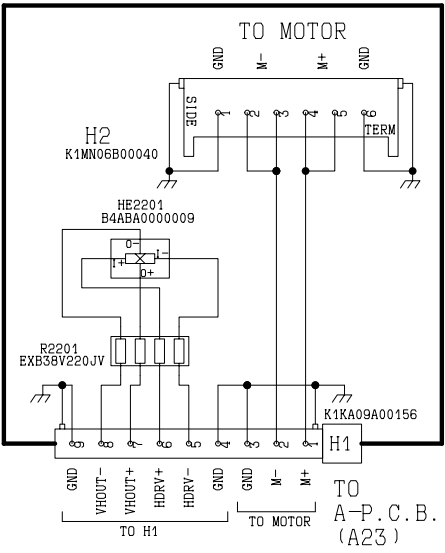
B

A

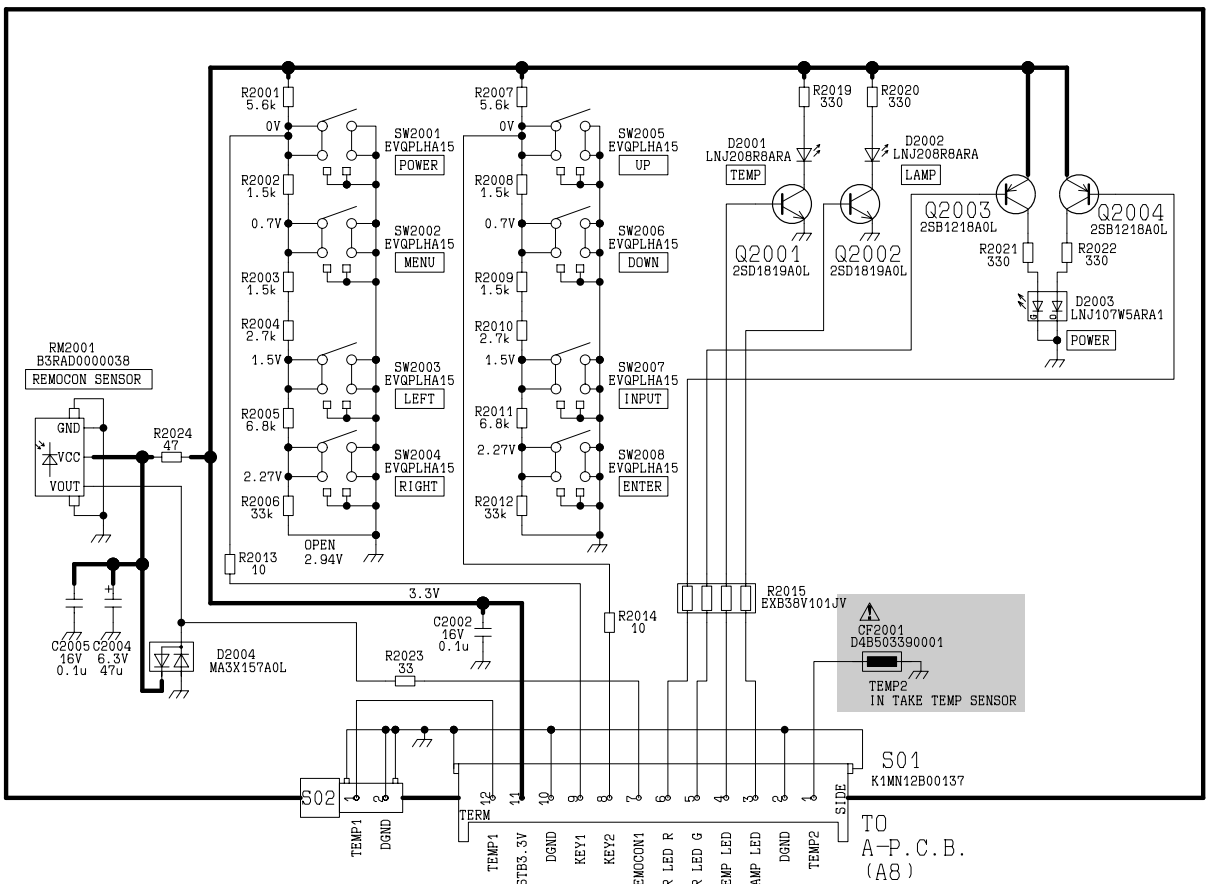
K-P.C.Board TXANP03PXNZ (PT-AE700U)
TXANP03PXQZ (PT-AE700E)



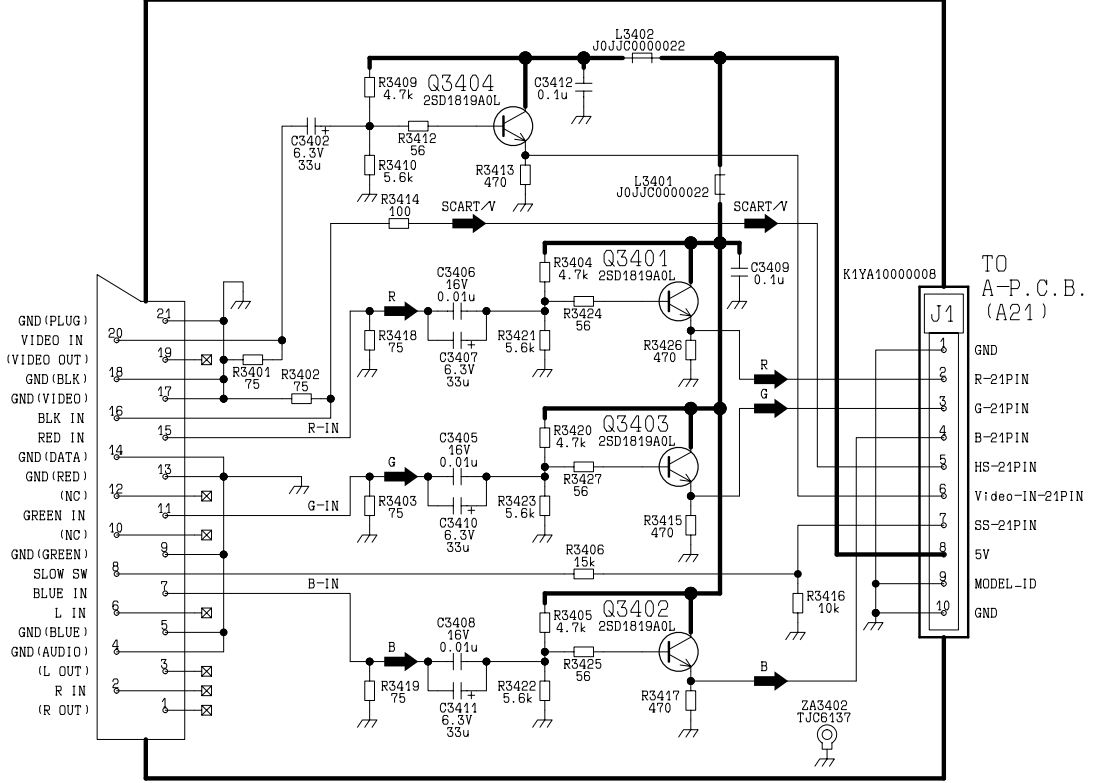
H-P.C.Board TNPA3412



S-P.C.Board TNPA3411



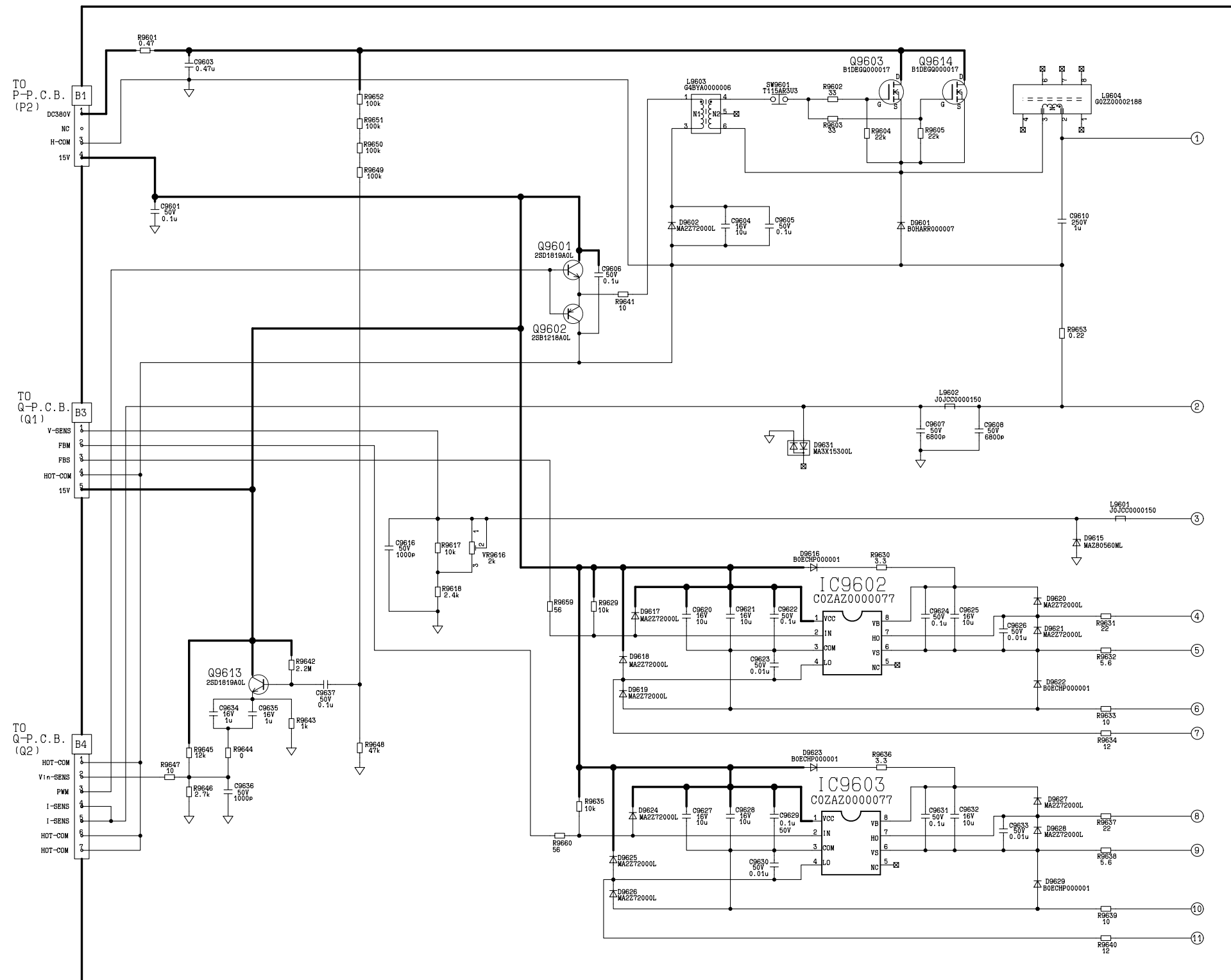
J-P.C.Board TNPA3417 (PT-AE700E only)



11.8. B-Module (1/2)

B-Module TXANP02VJY7 (1/2) Module Replacement

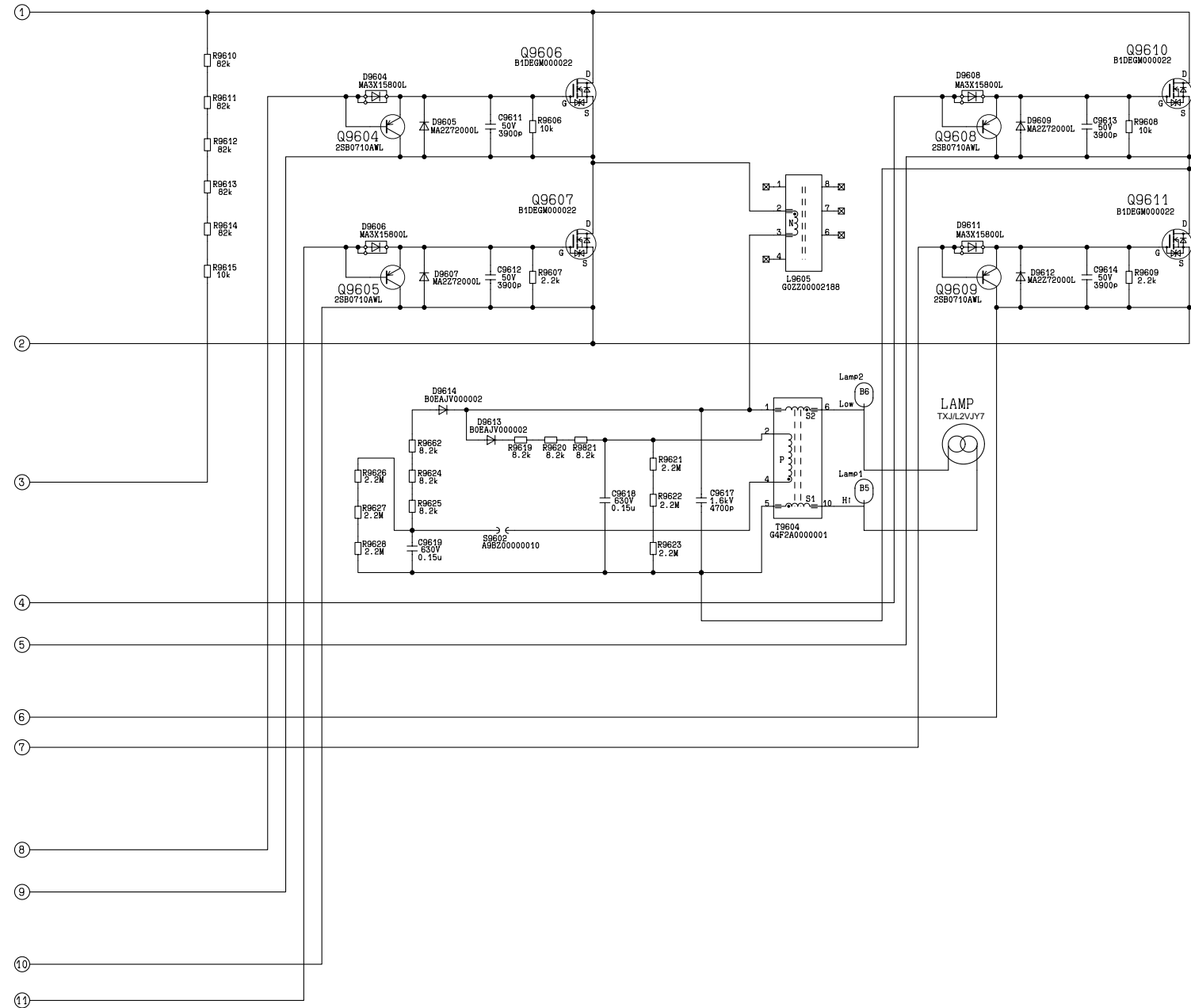
Only supplied components IC9602-03, Q9603-11, Q9614, D9601, D9604-09, D9611-12, D9616-29,
R9601, R9630-34, R9636-40, R9653, C9603, C9610, C9617-19, T9604, SW9601, S9602, TXJ/L2VJY7



11.9. B-Module (2/2)

B-Module TXANP02VJY7 (2/2) Module Replacement

Only supplied components IC9602-03, Q9603-11, Q9614, D9601, D9604-09, D9611-12, D9616-29, R9601, R9630-34, R9636-40, R9653, C9603, C9610, C9617-19, T9604, SW9601, S9602, TXJ/L2VJY7



12 Circuit Boards

12.1. A-P.CBoard

A-P.C.Board TXANP99PXNZ
(Foil Side)

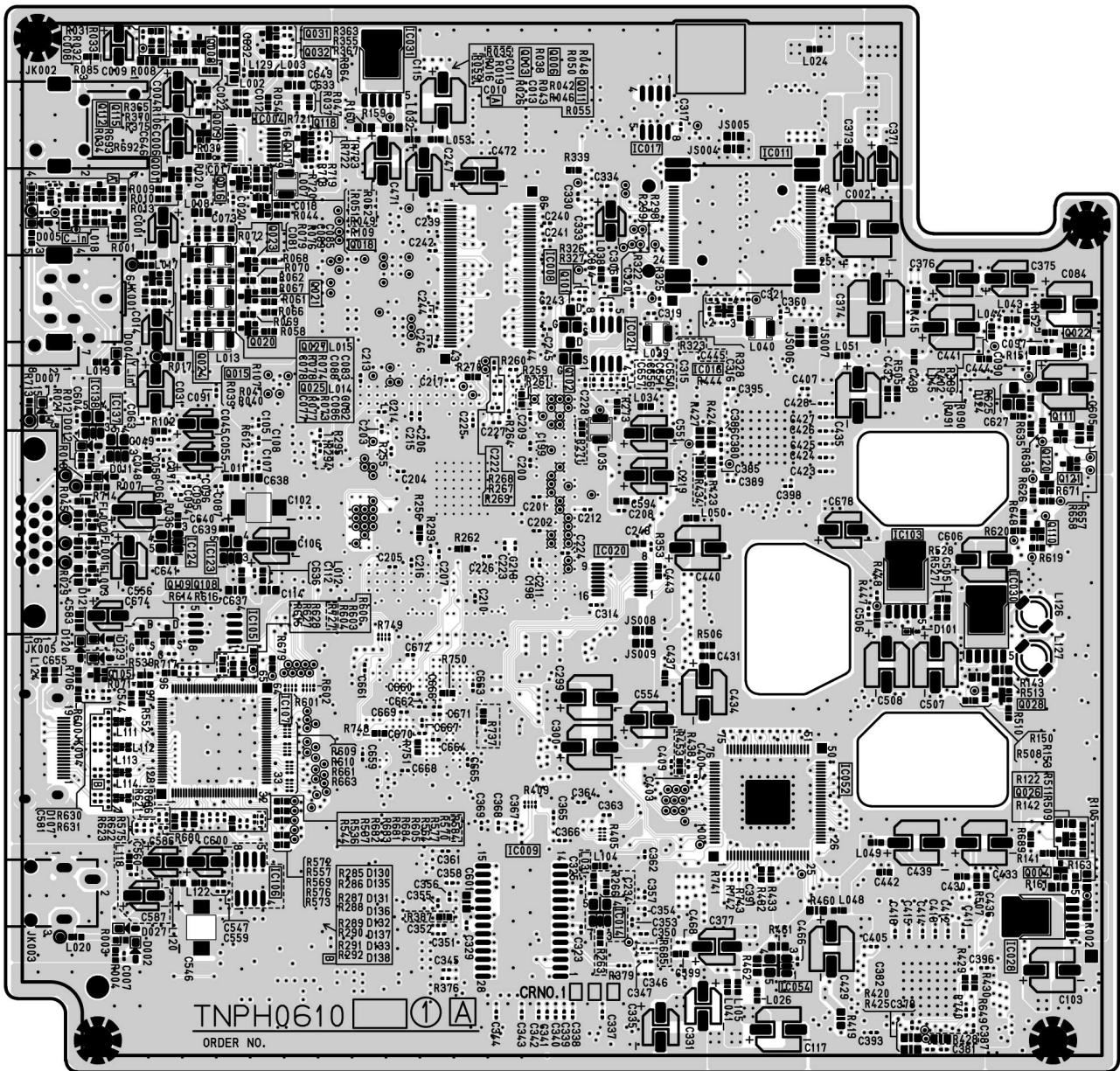
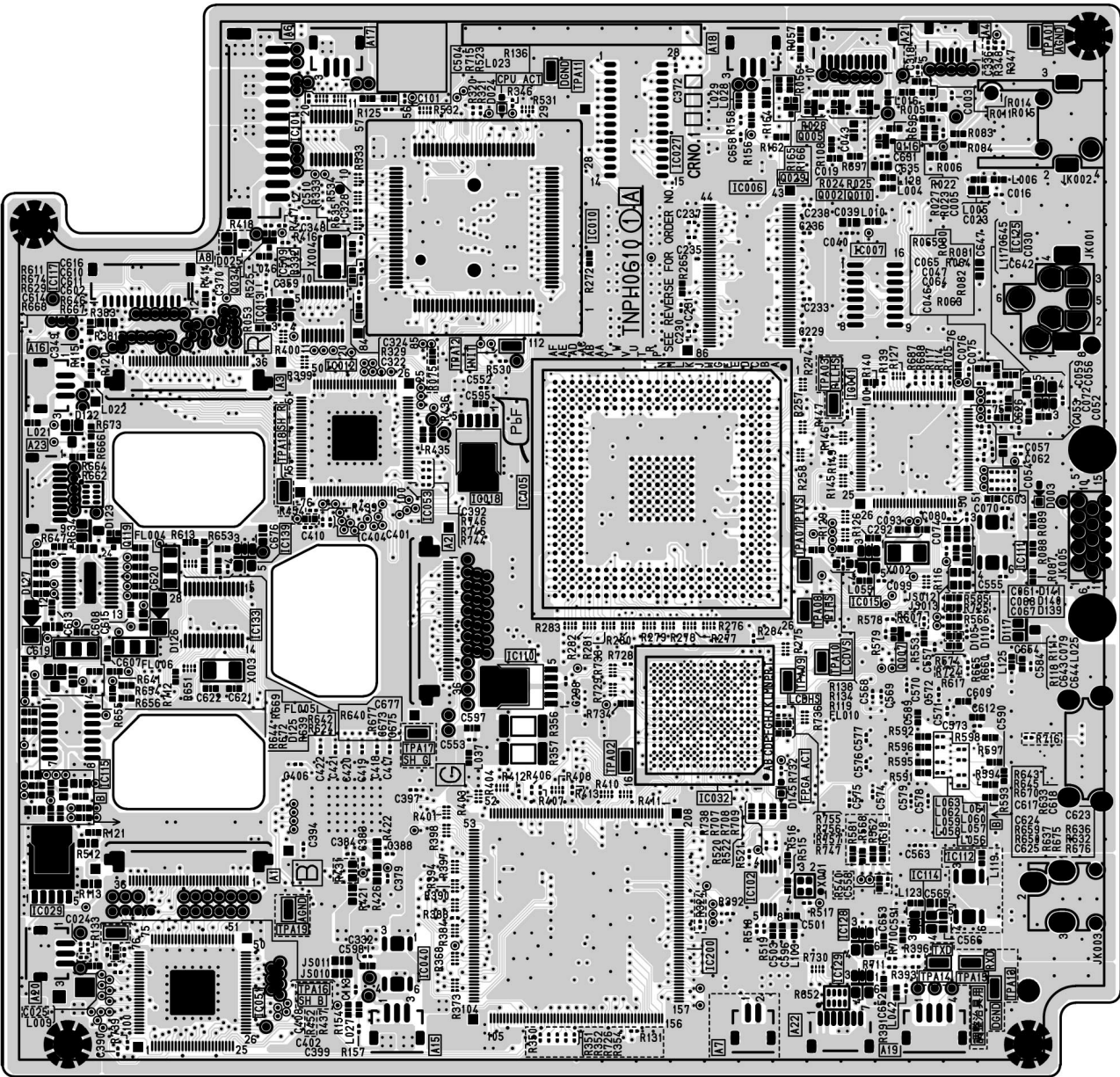
A-P.C.Board (Foil Side)					
IC		TRANSISTOR		TP	
IC1001	C-4	IC1110	B-3	Q1002	D-4
IC1005	C-3	IC1111	C-4	Q1005	D-4
IC1006	D-3	IC1112	A-4	Q1007	B-4
IC1007	D-4	IC1114	A-4	Q1010	D-4
IC1010	D-2	IC1115	B-1	Q1029	D-4
IC1012	C-2	IC1117	D-1	Q1034	D-1
IC1013	C-2	IC1125	C-5	Q1116	D-4
IC1015	B-4	IC1128	A-4	Q1119	C-1
IC1018	C-2	IC1129	A-4		
IC1027	D-3	IC1133	B-1		
IC1029	A-1	IC1139	C-2		
IC1032	B-3	IC1200	A-3		
IC1040	A-2				
IC1051	A-1				
IC1053	C-2				
IC1101	D-2				
IC1102	A-3				

ADDRESS INFORMATION

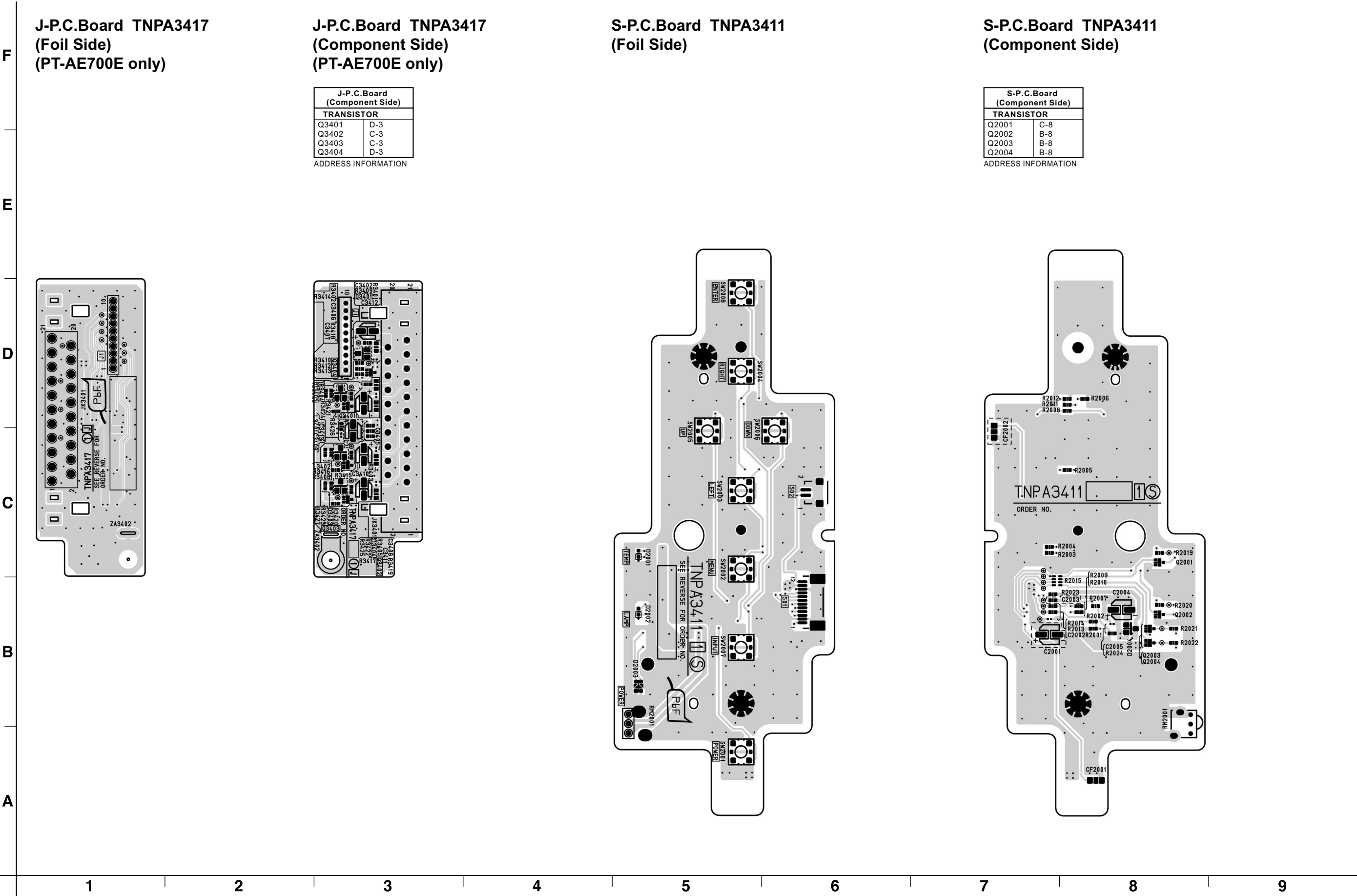
A-P.C.Board TXANP99PXNZ
(Component Side)

A-P.C.Board (Component Side)					
IC		TRANSISTOR			
IC1004	D-6	IC1123	C-6	Q1001	D-6
IC1008	D-7	IC1124	C-6	Q1003	D-7
IC1009	A-7	IC1137	C-5	Q1004	A-9
IC1011	D-8	IC1138	C-5	Q1006	D-7
IC1014	A-7			Q1008	D-6
IC1016	C-8			Q1009	D-6
IC1017	D-7			Q1011	D-7
IC1020	B-7			Q1015	D-6
IC1021	C-7			Q1016	D-6
IC1028	A-9			Q1018	D-6
IC1030	B-9			Q1020	C-6
IC1031	D-6			Q1021	D-6
IC1052	B-8			Q1022	C-9
IC1103	C-8			Q1023	D-6
IC1105	B-6			Q1024	D-6
IC1106	A-6			Q1025	C-6
IC1107	B-6			Q1026	B-9
				Q1027	C-6
				Q1031	D-6
				Q1102	C-7
				Q1105	B-5
				Q1108	B-6
				Q1109	B-6
				Q1110	C-9
				Q1111	C-9
				Q1112	D-6
				Q1115	D-6
				Q1117	D-6
				Q1118	D-6
				Q1120	C-9
				Q1121	C-9

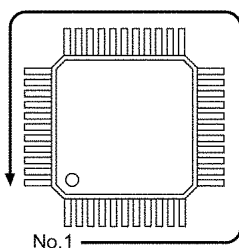
ADDRESS INFORMATION



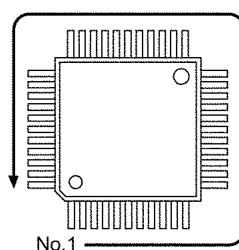
12.2. J-P.C.Board/S-P.C.Board



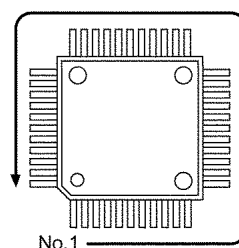
13 Terminal guide of ICs and transistors



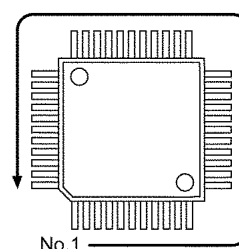
C1AB00001895 100 Pin
MN864720 128 Pin



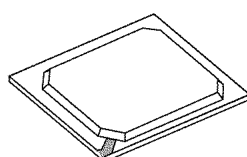
C1AB00001988 100 Pin



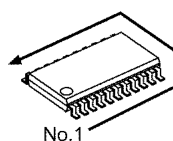
C1AB00001721 208 Pin



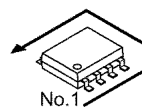
C2DBYH000017 112 Pin



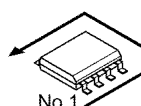
C1AB00002031



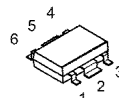
C0ABCA000007 14 Pin
C2CBEB000002 28 Pin
C0JBAF000379 20 Pin
C3ABPJ000071 86 Pin
C1AB00000740 16 Pin
C0ZBZ0000712 28 Pin
C0JBAR000294 16 Pin
C0JBAR000367 16 Pin



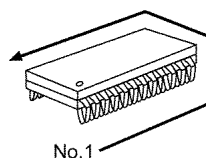
C0JBAZ002128 8 Pin
C0FBBD000065 8 Pin



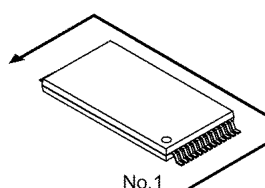
C3EBDC000046 8 Pin
C3EBKC000014 8 Pin



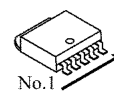
C0DBZFF00004 6 Pin
C0DBZGF00002 6 Pin



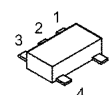
C3BBFC000290 28 Pin



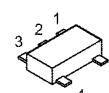
TVRN330 48 Pin



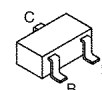
C0DBCFCG000009 5 Pin
C0DBEZE00002 5 Pin
C0CBCAG00007 5 Pin
C0DBEKG00004 5 Pin



C0CBCA00016 5 Pin
C0CBCDD00004 5 Pin
C0JBAZ002115 5 Pin
C0JBAE000146 5 Pin
C0DBEMC00020 5 Pin
C0JBAA000359 5 Pin
C0CBCAD00015 5 Pin



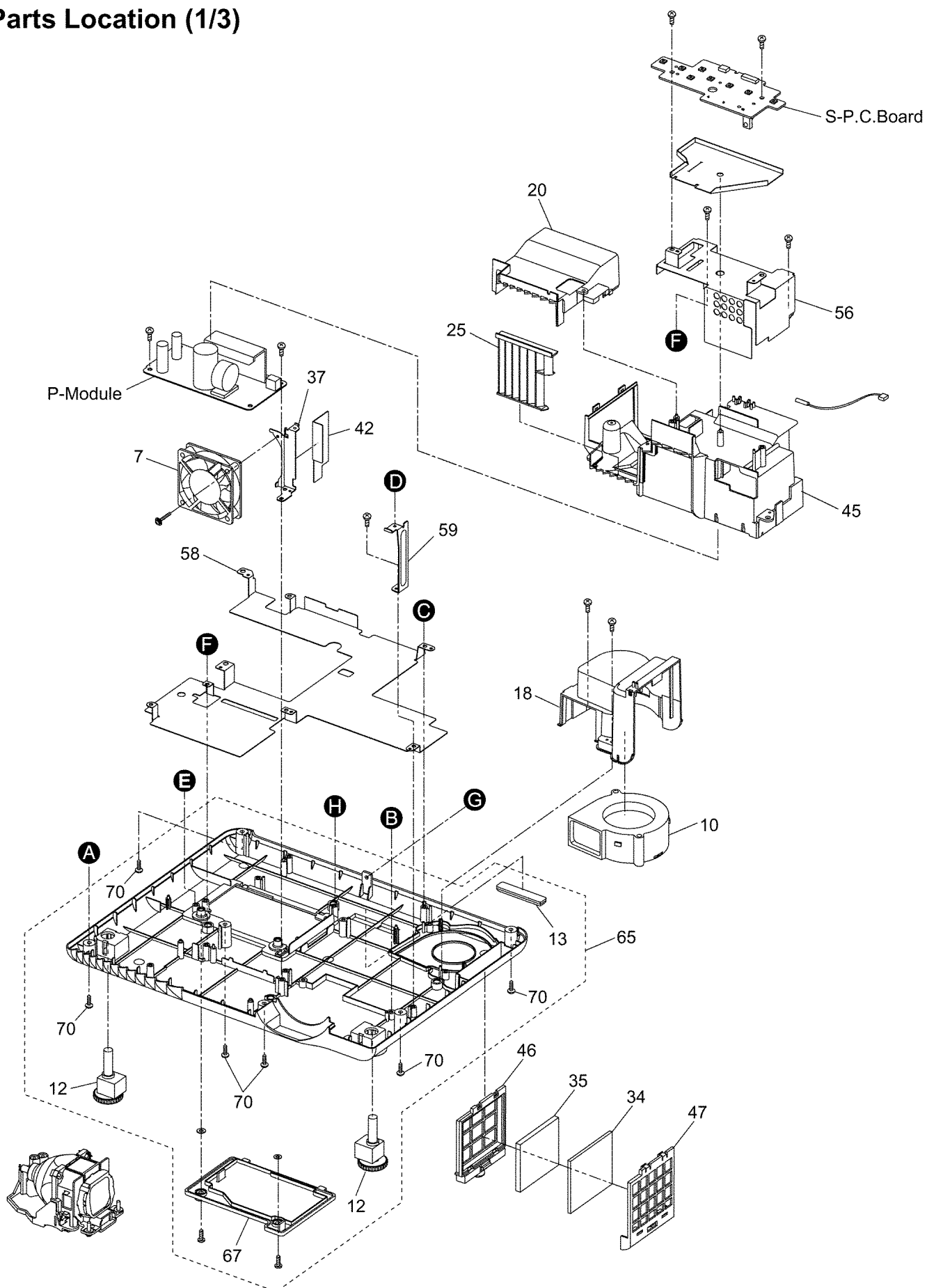
C0JBAZ002210 5 Pin



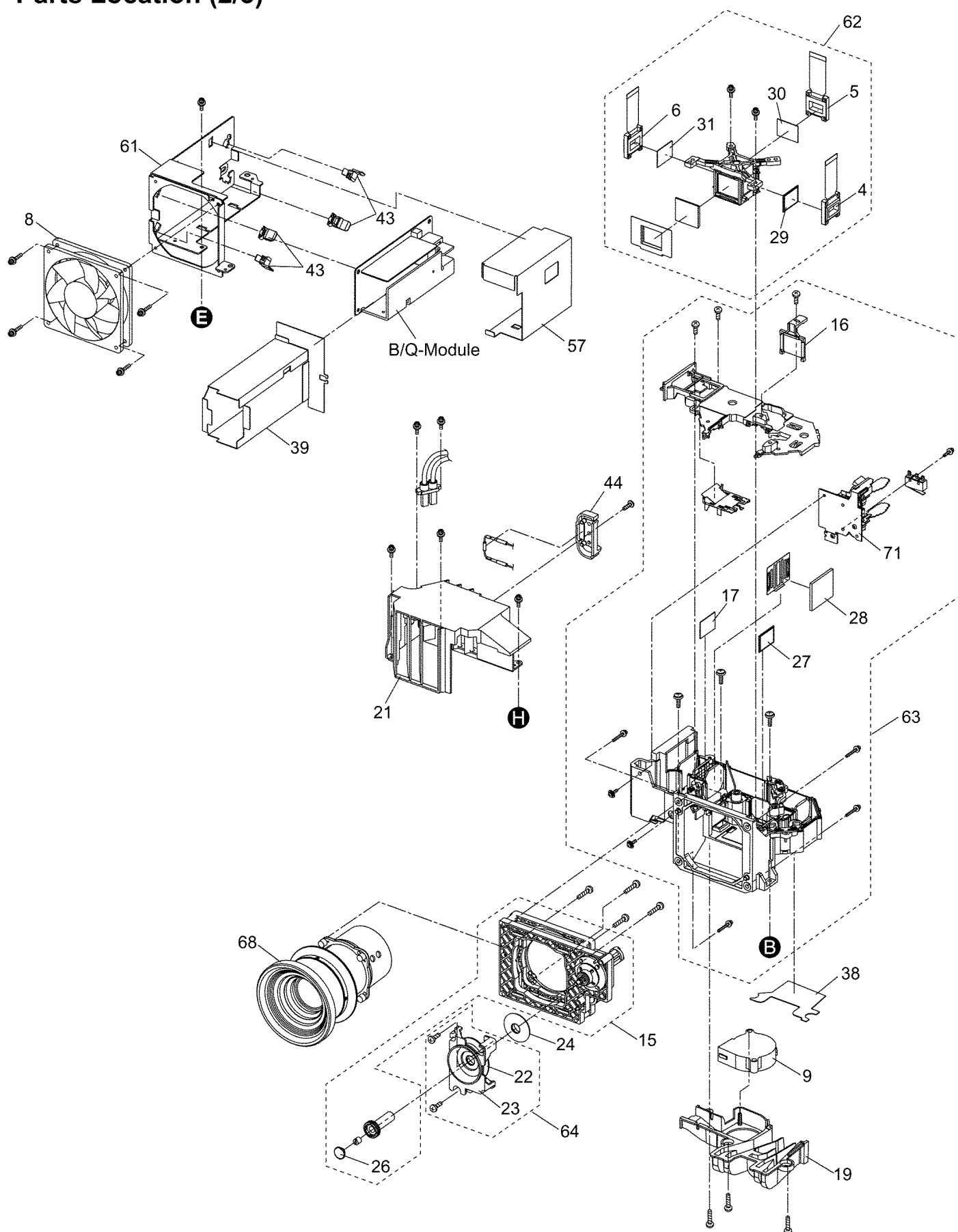
2SB1218A0L
2SD1819A0L

14 Exploded Views

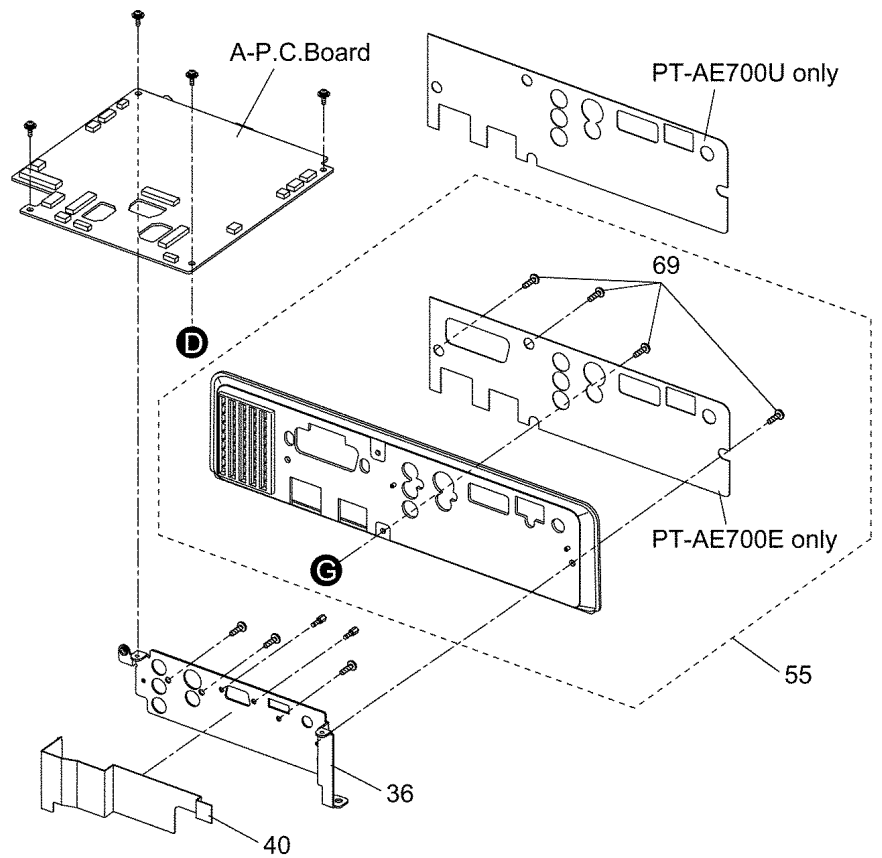
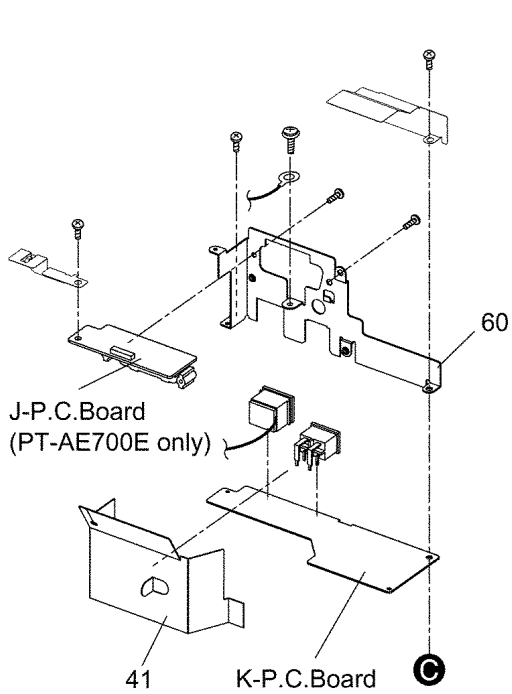
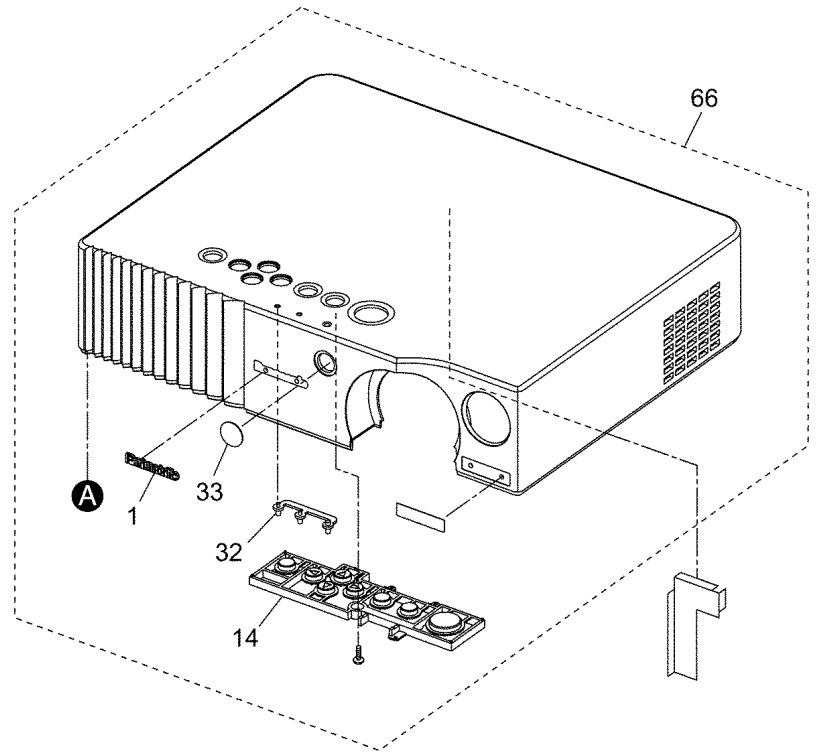
Parts Location (1/3)



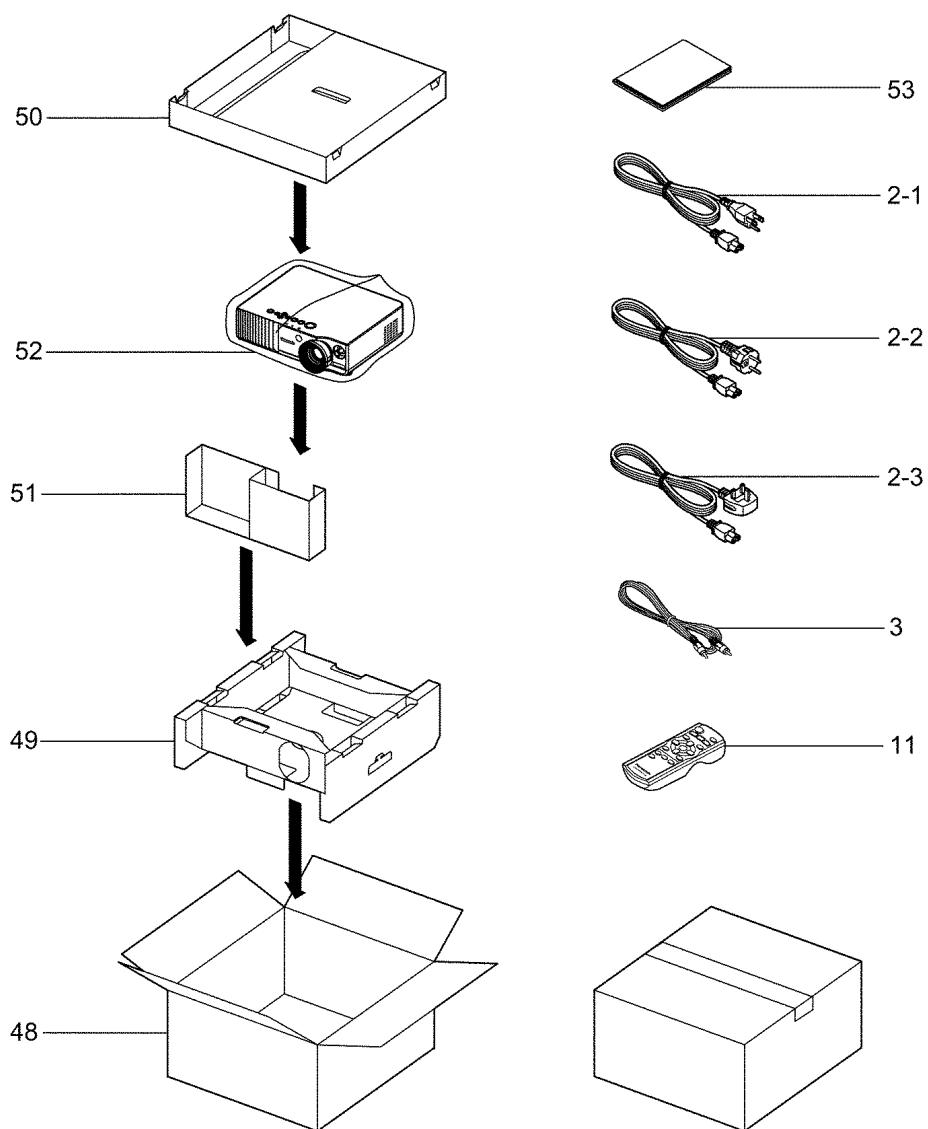
Parts Location (2/3)



Parts Location (3/3)



Packing Parts



15 Replacement Parts List

Important Safety Notice

Components identified by the International symbol \triangle have special characteristics important for safety.
When replacing any of these components, use only the manufacturer's specified parts.

Abbreviation of part name and description

1. Resistor

Example:

ERD25TJ104 C 100KOHM, J, 1/4W

TYPE ALLOWANCE

TYPE	ALLOWANCE
C : Carbon	F : - 1 %
F : Fuse	G : - 2 %
M : Metal Oxide	J : - 5 %
Metal Film	K : -10%
S : Solid	M : -20%
W : Wire Wound	

2. Capacitor

Example:

ECKF1H103ZF C 0.01PF, Z, 50V

TYPE ALLOWANCE

TYPE	ALLOWANCE
C : Ceramic	C : -0.25 pF
E : Electrolytic	D : -0.5 pF
P : Polyester	F : - 1 pF
PP : Polypropylene	J : - 5 %
S : Polystyrol	K : -10 %
T : Tantalum	L : -15 %
	M : -20 %
	P : +100 %, -0 %
	Z : +80 %, -20 %

Notes:

Printed circuit board assembly with mark (RTL) is no longer available after production discontinuation of the complete set.

Ref. No.	Part No.	Part Name & Description	Remarks
[MECHANICAL PARTS]			
	D4CDH5030002	TEMP SENSOR	
1	DFGB0112ZA-0	PANASONIC BADGE	
	J0KG00000052	CORE	
2-1	K2CG3FR00001	POWER CORD	\triangle PT-AE700U
2-2	K2CM3FR00002	POWER CORD (EUROPE)	\triangle PT-AE700E
2-3	K2CT3FR00003	POWER CORD (U.K.)	\triangle PT-AE700E
3	K2KA2FA00003	AV CABLE	
4	L5BDAXQ00188	LIQUID CRYSTAL DISPLAY (R)	L3D07H-55G01 (RED MARK)
5	L5BDAXQ00189	LIQUID CRYSTAL DISPLAY (G)	L3D07H-55G01 (NO MARK)
6	L5BDAXQ00190	LIQUID CRYSTAL DISPLAY (B)	L3D07H-55G01 (BLUE MARK)
4	L5BDAXQ00191	LIQUID CRYSTAL DISPLAY (R)	L3D07H-56G01 (RED MARK)
5	L5BDAXQ00192	LIQUID CRYSTAL DISPLAY (G)	L3D07H-56G01 (NO MARK)
6	L5BDAXQ00193	LIQUID CRYSTAL DISPLAY (B)	L3D07H-56G01 (BLUE MARK)
7	L6FAKCEH0010	POWER FAN	\triangle
8	L6FALEGH0012	VENTILATION FAN	\triangle
9	L6FCHC9H0004	PBS FAN	\triangle
10	L6FCLFCH0006	INHALATION FAN	\triangle
11	N2QAEA000025	REMOTE CONTROLLER	
12	TBLB00047	ADJUST LEG	
13	TBLG3042	RUBBER LEG	
	TBMA160	LOGO BADGE	
	TBMF685	MODEL NAME PLATE	PT-AE700U
	TBMF686	MODEL NAME PLATE	PT-AE700E
	TBMF688	MODEL NO. LABEL	PT-AE700U
	TBMF689	MODEL NO. LABEL	PT-AE700E
14	TBXA44901	CONTROL BUTTON	
15	TEEC0035	SHIFUT MECHANISM UNIT	
16	TEEC0036	POLARIZING PLATE/IN(G)	OPTICAL LABEL :TXZKG01VJY7A
	TEEC0037	POLARIZING PLATE/IN(G)	OPTICAL LABEL :TXZKG01VJY7B
18	TEEC5173	INHALATION DUCT	
19	TEEC5174	OPTICAL DUCT	
20	TEEC5176	DUCT COVER	

Ref. No.	Part No.	Part Name & Description	Remarks
21	TEEC5179	LAMP HOUSE	
22	TEEC5180	MASK MECHANISM 1	
23	TEEC5181	MASK MECHANISM 2	
24	TEEC5182	MASK MECHANISM 3	
25	TEEC5183	SHADING LOUVER	
26	TEFC5030	LENS SHIFT CAP	
	TESD067	SPRING	
	THEC035N	SCREW	
	THNX0389	NUT	
28	TKGP5240	PBS	
29	TKGP5244	POLARIZING PLATE/OUT (R)	
30	TKGP5245	POLARIZING PLATE/OUT (G)	
31	TKGP5246	POLARIZING PLATE/OUT (B)	OPTICAL LABEL :TXZKG01VJY7A
27	TKGP5247	POLARIZING PLATE/IN (R)	OPTICAL LABEL :TXZKG01VJY7B
17	TKGP5249	POLARIZING PLATE/IN (B)	
	TKGP5252	POLARIZING PLATE/OUT (B)	OPTICAL LABEL :TXZKG01VJY7B
27	TKGP5253	POLARIZING PLATE/IN (R)	OPTICAL LABEL :TXZKG01VJY7A
32	TKKC5195	LED DIFFUSION PLATE	
33	TKKC5199	REMOTE CONTROL RECEIVER	
	TKKL5318	LENS CAP	
34	TKNE055	FILTER	
35	TKNE056	ELECTRIFICATION FILTER	
36	TKZF5037	TERMINAL METAL	
37	TKZJ5059	POWER FAN INSTAL METAL	
	TMKX100	WASHER	
38	TMKX761	OPTICAL DUCT COVER	
39	TMKX764-1	BALLAST INSULATION SHEET	
40	TMKX765-1	SHADING SHEET	
41	TMKX766-1	SHADING SHEET (K-PCB)	
	TMKX771	SHADING SHEET 2 (K-PCB)	
42	TMKX784	POWER FAN SHEET	
	TMKX790	SHADING SHEET	PT-AE700U (SCART TERMINAL)
	TMKX793	COVER SHEET	

Ref. No.	Part No.	Part Name & Description	Remarks
	TMKX794	PLATE	
	TMME154	FUSE COVER	
43	TMME241	SPACER	
	TMME244	SPACER	
44	TMXC017	TEMP FUSE METAL	
45	TMXE041	POWER BOX	
46	TMZX5047	FILTER COVER 1	
47	TMZX5048	FILTER COVER 2	
48	TPCB68302	CARTON	PT-AE700U
	TPCB68303	CARTON	PT-AE700E
49	TPDF1317	PAD	
50	TPDF1318	ACCESSORY CARTON	
51	TPDF1349	REINFORCEMENT PAD	
52	TPEH124-1	SET COVER	
	TQB817002-1	SAFETY SHEET	PT-AE700U
53	TQBJ0161	INSTRUCTION BOOK	△ PT-AE700U
	TQBJ0162	INSTRUCTION BOOK	△ PT-AE700E
	TQBJ7002-1	SHEET	PT-AE700U
	TQD1712010	SHEET	
	TQDJ18011	GUARANTEE CARD(USA)	PT-AE700U
	TQDJ18012	GUARANTEE CARD(CANADA)	PT-AE700U
	TQF86202	LABEL	
	TSXL429	FLEXIBLE CABLE(A8-S1)	△
55	TTPA0392	TERMINAL COVER ASSY	PT-AE700U
	TTPA0393	TERMINAL COVER ASSY	PT-AE700E
	TUCA5006	SCART TERMINAL PLATE	PT-AE700E
	TUCB5033	ALUMINUM SHEET 1	
	TUCB5034-1	ALUMINUM SHEET 2	
	TUCB5035	ALUMINUM SHEET 3	
56	TUCC6005	POWER SHIELD METAL	
57	TUCC6019	BALLAST SHEILD METAL	
58	TUCX5180	BASE METAL	
59	TUCX5181	GROUND METAL 1	
60	TUWC053	INSTAL METAL(K-PCB)	
61	TUXE237	BALLAST INSTAL METAL	
	TXAJE01VJN7A	LEAD WIRE(K-PCB)	
62	TXFEC99VJY7A	OPTICAL BLOCK (A)	OPTICAL LABEL :TXZKG01VJY7A
	TXFEC99VJY7B	OPTICAL BLOCK (B)	OPTICAL LABEL :TXZKG01VJY7B
63	TXFEC98VJY7A	ANALYSIS BLOCK (A)	OPTICAL LABEL :TXZKG01VJY7A
	TXFEC98VJY7B	ANALYSIS BLOCK (B)	OPTICAL LABEL :TXZKG01VJY7B
64	TXFEE01VJY7	MASK MECHANISM ASSY	
65	TXFKF01PXNZ	BOTTOM COVER	PT-AE700U
	TXFKF01PXQZ	BOTTOM COVER	PT-AE700E
66	TXFKF02PXNZ	UPPER COVER	PT-AE700U
	TXFKF02PXQZ	UPPER COVER	PT-AE700E
67	TXFKL01VJY7	LAMP COVER ASSY	
	TXJ/B1VJV5	LEAD WIRE(B1-P2)	△
	TXJ/ELVJY7	CABLE WITH INTERLOCK SW	△
	TXJ/H1VJY7	LEAD WIRE(H1-A23Åj)	△
	TXJ/J1VJY7	LEAD WIRE(J-PCB)	PT-AE700E
	TXJ/L2VJY7	LAMP CABLE	
	TXJ/P1VJY7	LEAD WIRE(K1-P1)	△ TEMP FUSE
	TXJ/P3VJY7	LEAD WIRE(P3-A6)	△
	TXJ/Q3VJY7	LEAD WIRE(Q3-A4)	△
71	TXZEN01VJY7	IRIS UNIT ASSY	
68	TXZPL01VJY7	LENS ASSY	
69	XSB3+10FN	SCREW	
	XSN3+8FJK	SCREW	
	XSN3+8FN	SCREW	
70	XTB3+12CFN	SCREW	
	XTBT969FJK	SCREW	
	XTN3+6G	SCREW	
	XTN3+6GFJ	SCREW	
	XTW3+8PFJ	SCREW	
	XYN2+F6FJ	SCREW	
	XYN2+J10FJ	SCREW	
	XYN2+J4FJ	SCREW	
	XYN3+F20FJ	SCREW	
	XYN3+F8FJ	SCREW	

Ref. No.	Part No.	Part Name & Description	Remarks
	XYN3+J10FJ	SCREW	
	XYN3+J12FJ	SCREW	
	XYN3+J8FJ	SCREW	
	XYN4+E8FJ	SCREW	
	XZBT6532	BAG	PT-AE700U
[INTEGRATED CIRCUIT]			
IC1001	CIAB00001988	I.C	
IC1004	COJBAR000367	I.C	
IC1005	CIAB00002031	I.C	
IC1006	C3ABPJ000071	I.C	
IC1007	CIAB00000740	I.C	
IC1008	C3ABPJ000071	I.C	
IC1009	COZBZ0000971	I.C	
IC1010	C2DBYH000017	I.C	
IC1011	TVRN329	I.C	
IC1012	TC74LCX574TL	I.C	COJBAF000315
IC1013	COJBAA000324	I.C	
IC1015	COJBAZ002115	I.C	
IC1016	COEBE0000336	I.C	
IC1018	COBCAG000007	I.C	
IC1020	COJBAR000294	I.C	
IC1021	COFBBD000065	I.C	
IC1027	C3BBFC000290	I.C	
IC1028	CODBEZE000002	I.C	
IC1029	CODBEZE000002	I.C	
IC1030	CODBEZE000002	I.C	
IC1031	CODBEZE000002	I.C	
IC1032	CIZBZ0002561	I.C	
IC1040	CODBZFF000004	I.C	
IC1051	CIAB00001895	I.C	
IC1052	CIAB00001895	I.C	
IC1053	CIAB00001895	I.C	
IC1054	CODBEMC000020	I.C	
IC1101	TC74LCX574TL	I.C	COJBAF000315
IC1102	COJBAZ002128	I.C	
IC1103	CODBEKG000004	I.C	
IC1105	C3EBDC000046	I.C	
IC1107	MN864720	I.C	
IC1110	COBDCF000005	I.C	
IC1111	COBZGF000002	I.C	
IC1114	COBCAD000016	I.C	
IC1115	COABCA000062	I.C	
IC1117	CIAB00000818	I.C	
IC1123	COBCAD000015	I.C	
IC1124	COBCAD000015	I.C	
IC1125	COBCDD000004	I.C	
IC1128	COJBAZ002210	I.C	
IC1129	COJBAZ002210	I.C	
IC1133	TVRN330	I.C	
IC1137	COJBAA000359	I.C	
IC1138	COJBAA000359	I.C	
IC1139	COBCDD000004	I.C	
IC1200	CIAB00001721	I.C	
IC9602	COZAZ0000077	I.C	
IC9603	COZAZ0000077	I.C	
[TRANSISTORS]			
Q1001	2SD1819A	TRANSISTOR	2SD1819AW
Q1002	2SB1218A	TRANSISTOR	
Q1003	2SB1218A	TRANSISTOR	
Q1004	2SD1819A	TRANSISTOR	2SD1819AW
Q1005	2SB1218A	TRANSISTOR	
Q1006	2SD1819A	TRANSISTOR	2SD1819AW
Q1007	2SD1819A	TRANSISTOR	2SD1819AW
Q1008	2SD1819A	TRANSISTOR	2SD1819AW
Q1009	2SD1819A	TRANSISTOR	2SD1819AW
Q1010	2SB1218A	TRANSISTOR	
Q1011	2SD1819A	TRANSISTOR	2SD1819AW
Q1015	2SD1819A	TRANSISTOR	2SD1819AW
Q1016	2SD1819A	TRANSISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
Q1018	2SB1218A	TRANSISTOR	
Q1020	2SB1218A	TRANSISTOR	
Q1021	2SB1218A	TRANSISTOR	
Q1022	2SD1819A	TRANSISTOR	2SD1819AW
Q1023	2SB1218A	TRANSISTOR	
Q1024	2SD1819A	TRANSISTOR	2SD1819AW
Q1025	2SD1819A	TRANSISTOR	2SD1819AW
Q1026	2SD1819A	TRANSISTOR	2SD1819AW
Q1027	2SD1819A	TRANSISTOR	2SD1819AW
Q1028	2SD1819A	TRANSISTOR	2SD1819AW
Q1029	2SD1819A	TRANSISTOR	2SD1819AW
Q1031	2SD1819A	TRANSISTOR	2SD1819AW
Q1032	2SD1819A	TRANSISTOR	2SD1819AW
Q1034	2SD1819A	TRANSISTOR	2SD1819AW
Q1101	B1CBHD000001	TRANSISTOR	
Q1102	B1CBHD000001	TRANSISTOR	
Q1105	2SD1819A	TRANSISTOR	2SD1819AW
Q1108	B1CBHD000001	TRANSISTOR	
Q1109	B1CBHD000001	TRANSISTOR	
Q1110	2SD1819A	TRANSISTOR	2SD1819AW
Q1111	2SD1819A	TRANSISTOR	2SD1819AW
Q1112	2SD1819A	TRANSISTOR	2SD1819AW
Q1115	2SB1218A	TRANSISTOR	
Q1116	2SD1819A	TRANSISTOR	2SD1819AW
Q1117	2SD1819A	TRANSISTOR	2SD1819AW
Q1118	2SD1819A	TRANSISTOR	2SD1819AW
Q1119	2SD1819A	TRANSISTOR	2SD1819AW
Q1120	2SB1218A	TRANSISTOR	
Q1121	2SD1819A	TRANSISTOR	2SD1819AW
Q2001	2SD1819A	TRANSISTOR	2SD1819AW
Q2002	2SD1819A	TRANSISTOR	2SD1819AW
Q2003	2SB1218A	TRANSISTOR	
Q2004	2SB1218A	TRANSISTOR	
Q3401	2SD1819A	TRANSISTOR	PT-AE700E
Q3402	2SD1819A	TRANSISTOR	PT-AE700E
Q3403	2SD1819A	TRANSISTOR	PT-AE700E
Q3404	2SD1819A	TRANSISTOR	PT-AE700E
Q9603	B1DEGQ000017	TRANSISTOR	
Q9604	2SB710A	TRANSISTOR	2SB0710A
Q9605	2SB710A	TRANSISTOR	2SB0710A
Q9606	B1DEGM000022	TRANSISTOR	
Q9607	B1DEGM000022	TRANSISTOR	
Q9608	2SB710A	TRANSISTOR	2SB0710A
Q9609	2SB710A	TRANSISTOR	2SB0710A
Q9610	B1DEGM000022	TRANSISTOR	
Q9611	B1DEGM000022	TRANSISTOR	
Q9614	B1DEGQ000017	TRANSISTOR	
[DIODES]			
D1002	MAZ81500ML	DIODE	
D1003	MAZ80330HL	DIODE	
D1004	MA8056M	DIODE	MAZ80560M
D1005	MA8056M	DIODE	MAZ80560M
D1007	MAZ80330HL	DIODE	
D1011	MA8056M	DIODE	MAZ80560M
D1012	MA8056M	DIODE	MAZ80560M
D1024	LNJ208R8ARA	LED	
D1027	MA2J11100L	DIODE	
D1101	MA2S11100L	DIODE	
D1105	EZJZ0V171AA	VARISTOR	
D1107	EZJZ0V171AA	VARISTOR	
D1110	EZJZ0V171AA	VARISTOR	
D1117	MA3056M	ZENER DIODE	MAZ30560M
D1120	MA2Z72000L	DIODE	
D1121	MA2Z72000L	DIODE	
D1122	MA152WK	DIODE	MA3X152E
D1123	MA152WK	DIODE	MA3X152E
D1124	MA153A	DIODE	MA3X153A
D1125	MA704A	DIODE	MA3X704A
D1126	B0JCPD000010	DIODE	
D1127	B0JCPD000010	DIODE	
D1130	EZJZ0V80008B	VARISTOR	

Ref. No.	Part No.	Part Name & Description	Remarks
D1131	EZJZ0V80008B	VARISTOR	
D1132	EZJZ0V80008B	VARISTOR	
D1133	EZJZ0V80008B	VARISTOR	
D1135	EZJZ0V80008B	VARISTOR	
D1136	EZJZ0V80008B	VARISTOR	
D1137	EZJZ0V80008B	VARISTOR	
D1138	EZJZ0V80008B	VARISTOR	
D1139	EZJZ0V171AA	VARISTOR	
D1140	EZJZ0V171AA	VARISTOR	
D1141	EZJZ0V171AA	VARISTOR	
D1145	LNJ208R8ARA	LED	
D2001	LNJ208R8ARA	LED	
D2002	LNJ208R8ARA	LED	
D2003	LNJ107W5ARA1	LED	
D2004	MA157A	DIODE	MA3X157A
D9101	ERZV14D471	VARISTOR	△
D9601	B0HASR000006	DIODE	
D9604	MA158	DIODE	
D9605	MA2Z72000L	DIODE	
D9606	MA158	DIODE	
D9607	MA2Z72000L	DIODE	
D9608	MA158	DIODE	
D9609	MA2Z72000L	DIODE	
D9611	MA158	DIODE	
D9612	MA2Z72000L	DIODE	
D9616	D1FL40F4063	DIODE	BOECHP000001
D9617	MA2Z72000L	DIODE	
D9618	MA2Z72000L	DIODE	
D9619	MA2Z72000L	DIODE	
D9620	MA2Z72000L	DIODE	
D9621	MA2Z72000L	DIODE	
D9622	D1FL40F4063	DIODE	BOECHP000001
D9623	D1FL40F4063	DIODE	BOECHP000001
D9624	MA2Z72000L	DIODE	
D9625	MA2Z72000L	DIODE	
D9626	MA2Z72000L	DIODE	
D9627	MA2Z72000L	DIODE	
D9628	MA2Z72000L	DIODE	
D9629	D1FL40F4063	DIODE	BOECHP000001
[COILS]			
L1002	J0JJC0000022	EMI FILTER	
L1003	J0JJC0000022	EMI FILTER	
L1004	J0JJC0000022	EMI FILTER	
L1005	J0JJC0000022	EMI FILTER	
L1006	J0JJC0000022	EMI FILTER	
L1007	ELJFA150JF	COIL	
L1008	J0JJC0000022	EMI FILTER	
L1009	J0JJC0000022	EMI FILTER	
L1010	J0JJC0000022	EMI FILTER	
L1011	J0JJC0000022	EMI FILTER	
L1012	J0JJC0000022	EMI FILTER	
L1013	ELJFA150JF	COIL	
L1014	ELJFA150JF	COIL	
L1015	ELJFA150JF	COIL	
L1016	J0JCC0000168	FILTER	
L1017	J0JCC0000168	FILTER	
L1018	J0JCC0000168	FILTER	
L1019	J0JCC0000168	FILTER	
L1020	J0JCC0000168	FILTER	
L1021	J0JJC0000022	EMI FILTER	
L1022	J0JCC0000168	FILTER	
L1023	J0JCC0000168	FILTER	
L1024	J0JJC0000022	EMI FILTER	
L1025	J0JJC0000022	EMI FILTER	
L1026	J0JJC0000022	EMI FILTER	
L1027	J0JCC0000168	FILTER	
L1028	J0JCC0000168	FILTER	
L1029	J0JJC0000022	EMI FILTER	
L1032	J0JJC0000022	EMI FILTER	
L1034	J0JJC0000022	EMI FILTER	
L1035	ELJFA470JF	COIL	

Ref. No.	Part No.	Part Name & Description	Remarks
L1037	J0JJC0000022	EMI FILTER	
L1038	J0JJC0000022	EMI FILTER	
L1039	ELJFA6R8JF	COIL	
L1040	ELJFA470JF	COIL	
L1041	J0JJC0000022	EMI FILTER	
L1042	J0JJC0000022	EMI FILTER	
L1043	J0JJC0000022	EMI FILTER	
L1044	J0JJC0000022	EMI FILTER	
L1045	J0JJC0000022	EMI FILTER	
L1046	J0JJC0000022	EMI FILTER	
L1048	J0JJC0000022	EMI FILTER	
L1049	J0JJC0000022	EMI FILTER	
L1050	J0JJC0000022	EMI FILTER	
L1051	J0JJC0000022	EMI FILTER	
L1053	J0JJC0000022	EMI FILTER	
L1055	J0JJC0000022	EMI FILTER	
L1056	J0ZZB0000063	FILTER	
L1057	J0ZZB0000063	FILTER	
L1058	J0ZZB0000063	FILTER	
L1059	J0ZZB0000063	FILTER	
L1060	J0ZZB0000063	FILTER	
L1061	J0ZZB0000063	FILTER	
L1062	J0ZZB0000063	FILTER	
L1063	J0ZZB0000063	FILTER	
L1103	J0JJC0000022	EMI FILTER	
L1104	J0JJC0000022	EMI FILTER	
L1105	J0JJC0000022	EMI FILTER	
L1111	J0MAB0000176	COIL	
L1112	J0MAB0000176	COIL	
L1113	J0MAB0000176	COIL	
L1114	J0MAB0000176	COIL	
L1117	J0JJC0000022	EMI FILTER	
L1120	J0JJC0000022	EMI FILTER	
L1122	J0JJC0000022	EMI FILTER	
L1123	J0JJC0000022	EMI FILTER	
L1124	J0JJC0000022	EMI FILTER	
L1125	J0JJC0000022	EMI FILTER	
L1126	G1C330MA0077	COIL	
L1127	G1C330MA0077	COIL	
L1128	J0JJC0000022	EMI FILTER	
L1129	J0JJC0000022	EMI FILTER	
L3401	J0JJC0000022	EMI FILTER	PT-AE700E
L3402	J0JJC0000022	EMI FILTER	PT-AE700E
[RESISTORS]			
R1001	ERJ6GEYJ750	M 75 OHM,J,1/10W	
R1002	ERJ6ENF1801	M 1.8KOHM, 1/10W	
R1003	ERJ3GEYJ272	M 2.7KOHM,J,1/16W	
R1004	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1005	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1006	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1007	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1008	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1009	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1010	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1011	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1012	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1013	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1014	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1015	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1017	ERJ6GEYJ750	M 75 OHM,J,1/10W	
R1018	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1019	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R1020	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1021	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1022	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1023	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1024	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1025	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1026	ERJ6GEYJ750	M 75 OHM,J,1/10W	
R1027	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1028	ERJ3GEYJ560	M 56 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1029	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1030	ERJ3GEYJ151	M 150 OHM,J,1/16W	
R1031	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1032	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1033	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1034	ERJ3GEYJ151	M 150 OHM,J,1/16W	
R1035	ERJ2GE0R00	M 0 OHM, 0.063W	
R1036	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1037	ERJ3GEYJ221	M 220 OHM,J,1/16W	
R1038	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1039	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1040	ERJ3GEYJ562	M 5.6KOHM,J,1/16W	
R1041	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1042	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1043	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1044	ERJ3GEYJ472	M 4.7KOHM,J,1/16W	
R1045	ERJ6ENF75R0	M 75 OHM, 1/10W	
R1046	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1047	ERJ3GEYJ221	M 220 OHM,J,1/16W	
R1048	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1049	ERJ3GEYJ101	M 100 OHM,J,1/16W	
R1050	ERJ3GEYJ332	M 3.3KOHM,J,1/16W	
R1051	ERJ3GEYJ821	M 820 OHM,J,1/16W	
R1052	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1053	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1054	ERJ3GEYJ221	M 220 OHM,J,1/16W	
R1055	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1056	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1057	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1058	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1059	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R1061	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1062	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1063	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1064	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1065	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1066	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R1067	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R1068	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R1069	ERJ3GEYJ681	M 680 OHM,J,1/16W	
R1070	ERJ3GEYJ681	M 680 OHM,J,1/16W	
R1071	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1072	ERJ3GEYJ681	M 680 OHM,J,1/16W	
R1073	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1074	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1076	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1077	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1078	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1079	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1080	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1081	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1082	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1083	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1084	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1085	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1087	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1088	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1089	ERJ3GEYJ180	M 18 OHM,J,1/16W	
R1090	ERJ2GEJ103	M 10K OHM, 0.063W	
R1091	ERJ2GEJ103	M 10K OHM, 0.063W	
R1102	ERJ3EKF1371	M 1.37KOHM, 0.063W	
R1105	ERJ6ENF2001	M 2KOHM, 1/10W	
R1106	ERJ3GEYJ151	M 150 OHM,J,1/16W	
R1107	ERJ3GEYJ471	M 470 OHM,J,1/16W	
R1108	ERJ3GEYJ151	M 150 OHM,J,1/16W	
R1109	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1111	ERJ3EKF1741	M 1.74KOHM, 0.063W	
R1113	ERJ6ENF2001	M 2KOHM, 1/10W	
R1114	ERJ2GEJ220	M 22 OHM, 0.063W	
R1115	ERJ2GEJ562	M 5.6KOHM, 0.063W	
R1116	EXB28V220J	RESISTOR ARRAY	
R1117	ERJ2GEJ220	M 22 OHM, 0.063W	
R1118	ERJ2GEJ220	M 22 OHM, 0.063W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1119	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1120	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1121	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1122	ERJ6ENF4700	M 470 OHM, 1/10W	
R1125	ERJ2GEJ562	M 5.6KOHM, 0.063W	
R1126	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1127	EXB28V220J	RESISTOR ARRAY	
R1129	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1133	ERJ2GEJ333	M 33K OHM, 0.063W	
R1134	EXB28V220J	RESISTOR ARRAY	
R1136	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1138	EXB28V220J	RESISTOR ARRAY	
R1139	ERJ2GEJ330	M 33 OHM, 0.063W	
R1140	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1141	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1142	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1143	ERJ6ENF2001	M 2KOHM, 1/10W	
R1145	EXB28V220J	RESISTOR ARRAY	
R1146	EXB28V220J	RESISTOR ARRAY	
R1147	ERJ2GEJ220	M 22 OHM, 0.063W	
R1149	EXB28V220J	RESISTOR ARRAY	
R1150	ERJ6ENF1801	M 1.8KOHM, 1/10W	
R1151	ERJ6GEYJ222	M 2.2KOHM,J,1/16W	
R1152	ERJ3GEYJ822	M 8.2KOHM,J,1/16W	
R1153	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1154	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1156	ERJ3GEYJ560	M 56 OHM,J,1/16W	
R1157	ERJ2GEJ562	M 5.6KOHM, 0.063W	
R1158	ERJ2GEJ562	M 5.6KOHM, 0.063W	
R1159	ERJ6ENF2001	M 2KOHM, 1/10W	
R1160	ERJ6ENF1801	M 1.8KOHM, 1/10W	
R1161	ERJ6ENF4700	M 470 OHM, 1/10W	
R1162	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1163	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1164	ERJ6ENF4700	M 470 OHM, 1/10W	
R1165	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1166	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1255	ERJ2GE0R00	M 0 OHM, 0.063W	
R1256	ERJ3GEYJ331	M 330 OHM,J,1/16W	
R1257	EXB28V560J	RESISTOR ARRAY	
R1258	EXB28V560J	RESISTOR ARRAY	
R1259	ERJ2GE0R00	M 0 OHM, 0.063W	
R1260	ERJ2GE0R00	M 0 OHM, 0.063W	
R1262	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1264	ERJ2GE0R00	M 0 OHM, 0.063W	
R1265	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1267	ERJ2GE0R00	M 0 OHM, 0.063W	
R1268	ERJ2GE0R00	M 0 OHM, 0.063W	
R1269	ERJ2GE0R00	M 0 OHM, 0.063W	
R1270	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1272	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1273	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1274	EXB28V560J	RESISTOR ARRAY	
R1275	EXB28V560J	RESISTOR ARRAY	
R1276	EXB28V560J	RESISTOR ARRAY	
R1277	EXB28V560J	RESISTOR ARRAY	
R1278	EXB28V560J	RESISTOR ARRAY	
R1279	EXB28V560J	RESISTOR ARRAY	
R1280	EXB28V560J	RESISTOR ARRAY	
R1281	EXB28V560J	RESISTOR ARRAY	
R1282	EXB28V560J	RESISTOR ARRAY	
R1283	EXB28V560J	RESISTOR ARRAY	
R1284	ERJ2GEJ560	M 56 OHM, 0.063W	
R1285	ERJ2GEJ3R9X	M 3.9 OHM, 0.063W	
R1286	ERJ2GEJ3R9X	M 3.9 OHM, 0.063W	
R1287	ERJ2GEJ3R9X	M 3.9 OHM, 0.063W	
R1288	ERJ2GEJ3R9X	M 3.9 OHM, 0.063W	
R1289	ERJ2GEJ3R9X	M 3.9 OHM, 0.063W	
R1290	ERJ2GEJ3R9X	M 3.9 OHM, 0.063W	
R1291	ERJ2GEJ3R9X	M 3.9 OHM, 0.063W	
R1292	ERJ2GEJ3R9X	M 3.9 OHM, 0.063W	
R1293	ERJ2GE0R00	M 0 OHM, 0.063W	
R1295	ERJ2GEJ101	M 100 OHM, 0.063W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1298	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1299	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1320	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1321	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1322	ERJ2GEJ101	M 100 OHM, 0.063W	
R1325	ERJ2GEJ103	M 10K OHM, 0.063W	
R1326	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1327	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1328	ERJ2GEJ221	M 220 OHM, 0.063W	
R1329	ERJ2GEJ272	M 2.7KOHM, 0.063W	
R1332	ERJ2GEJ103	M 10K OHM, 0.063W	
R1333	ERJ2GE0R00	M 0 OHM, 0.063W	
R1339	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1346	ERJ2GEJ102	M 1K OHM, 0.063W	
R1347	ERJ2GEJ103	M 10K OHM, 0.063W	
R1348	ERJ2GEJ101	M 100 OHM, 0.063W	
R1353	ERJ2GEJ221	M 220 OHM, 0.063W	
R1355	ERJ2GEJ103	M 10K OHM, 0.063W	
R1356	ERJ1TYJ1R6U	M 1.6 OHM, J, 1W	
R1357	ERJ1TYJ1R6U	M 1.6 OHM, J, 1W	
R1363	ERJ2GEJ562	M 5.6KOHM, 0.063W	
R1364	ERJ2GEJ103	M 10K OHM, 0.063W	
R1365	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R1367	ERJ2GEJ562	M 5.6KOHM, 0.063W	
R1368	EXB28V220J	RESISTOR ARRAY	
R1370	ERJ6GEYJ100	M 10 OHM,J,1/10W	
R1373	EXB28V220J	RESISTOR ARRAY	
R1375	ERJ6GEYJ560	M 56 OHM,J,1/10W	
R1376	ERJ2GE0R00	M 0 OHM, 0.063W	
R1379	ERJ2GEJ220	M 22 OHM, 0.063W	
R1381	ERJ6ENF2202	M 2.2KOHM, 1/10W	
R1383	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1384	EXB28V560J	RESISTOR ARRAY	
R1388	ERJ2GEJ560	M 56 OHM, 0.063W	
R1389	ERJ2GEJ333	M 33K OHM, 0.063W	
R1390	EXB28V560J	RESISTOR ARRAY	
R1391	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1392	ERJ2GEJ331	M 330 OHM, 0.063W	
R1393	ERJ2GEJ101	M 100 OHM, 0.063W	
R1394	EXB28V560J	RESISTOR ARRAY	
R1396	ERJ2GEJ101	M 100 OHM, 0.063W	
R1397	EXB28V560J	RESISTOR ARRAY	
R1398	EXB28V560J	RESISTOR ARRAY	
R1399	EXB28V102J	RESISTOR ARRAY	
R1400	EXB28V220J	RESISTOR ARRAY	
R1401	EXB28V560J	RESISTOR ARRAY	
R1402	ERJ2GEJ101	M 100 OHM, 0.063W	
R1403	EXB28V560J	RESISTOR ARRAY	
R1404	EXB28V560J	RESISTOR ARRAY	
R1405	EXB28V560J	RESISTOR ARRAY	
R1406	ERJ2GEJ560	M 56 OHM, 0.063W	
R1407	ERJ2GEJ560	M 56 OHM, 0.063W	
R1408	EXB28V560J	RESISTOR ARRAY	
R1409	EXB28V560J	RESISTOR ARRAY	
R1410	EXB28V560J	RESISTOR ARRAY	
R1411	EXB28V560J	RESISTOR ARRAY	
R1412	ERJ2GEJ560	M 56 OHM, 0.063W	
R1413	ERJ2GEJ560	M 56 OHM, 0.063W	
R1414	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1415	ERJ6ENF2202	M 2.2KOHM, 1/10W	
R1416	ERJ2GEJ102	M 1K OHM, 0.063W	
R1417	ERJ2GEJ103	M 10K OHM, 0.063W	
R1418	ERJ2GEJ562	M 5.6KOHM, 0.063W	
R1419	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1420	ERJ6ENF1801	M 1.8KOHM, 1/10W	
R1421	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1422	ERJ6ENF1801	M 1.8KOHM, 1/10W	
R1423	ERJ6GEY0R00	M 0 OHM,J,1/10W	
R1424	ERJ6ENF1801	M 1.8KOHM, 1/10W	
R1425	ERJ6ENF3301	M 3.3KOHM, 1/10W	
R1426	ERJ6ENF3301	M 3.3KOHM, 1/10W	
R1427	ERJ6ENF3301	M 3.3KOHM, 1/10W	
R1429	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1430	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1432	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1433	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1435	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1436	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1437	ERJ2GE0R00	M 0 OHM, 0.063W	
R1438	ERJ2GE0R00	M 0 OHM, 0.063W	
R1439	ERJ2GE0R00	M 0 OHM, 0.063W	
R1444	ERJ2GEJ103	M 10K OHM, 0.063W	
R1447	ERJ2GEJ103	M 10K OHM, 0.063W	
R1448	ERJ2GEJ103	M 10K OHM, 0.063W	
R1460	ERJ6GEYJ122	M 1.2KOHM,J,1/10W	
R1461	ERJ6ENF1002	M 10KOHM, 1/10W	
R1462	ERJ6ENF1002	M 10KOHM, 1/10W	
R1505	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R1506	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R1507	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R1508	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1509	ERJ3GEYJ682	M 6.8KOHM,J,1/16W	
R1510	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1511	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1512	ERJ6ENF1801	M 1.8KOHM, 1/10W	
R1513	ERJ6ENF4700	M 470 OHM, 1/10W	
R1515	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1516	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1517	ERJ2GEJ102	M 1K OHM, 0.063W	
R1518	ERJ2GE0R00	M 0 OHM, 0.063W	
R1519	ERJ2GE0R00	M 0 OHM, 0.063W	
R1520	ERJ2GEJ100	M 10 OHM, 0.063W	
R1521	ERJ2GEJ100	M 10 OHM, 0.063W	
R1522	ERJ2GEJ100	M 10 OHM, 0.063W	
R1523	EXB28V220J	RESISTOR ARRAY	
R1525	ERJ2GE0R00	M 0 OHM, 0.063W	
R1527	ERJ3EKF1473	M 147KOHM, 0.063W	
R1528	ERJ3EKF1002	M 10KOHM, 1/16W	
R1530	ERJ2GEJ103	M 10K OHM, 0.063W	
R1531	EXB28V103J	RESISTOR ARRAY	
R1532	EXB28V103J	RESISTOR ARRAY	
R1533	EXB28V103J	RESISTOR ARRAY	
R1534	EXB28V103J	RESISTOR ARRAY	
R1535	EXB28V103J	RESISTOR ARRAY	
R1536	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1537	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1539	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1544	ERJ3GEYJ330	M 33 OHM,J,1/16W	
R1552	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1553	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1557	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1564	ERJ2GE0R00	M 0 OHM, 0.063W	
R1566	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1569	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1570	ERJ2GE0R00	M 0 OHM, 0.063W	
R1572	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1573	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1574	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1575	ERJ2GE0R00	M 0 OHM, 0.063W	
R1576	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1577	ERJ2GE0R00	M 0 OHM, 0.063W	
R1578	ERJ2GEJ103	M 10K OHM, 0.063W	
R1579	ERJ2GEJ103	M 10K OHM, 0.063W	
R1591	ERJ3EKF1000	M 100 OHM, 1/16W	
R1592	ERJ3EKF1000	M 100 OHM, 1/16W	
R1593	ERJ3EKF1000	M 100 OHM, 1/16W	
R1594	ERJ3EKF1000	M 100 OHM, 1/16W	
R1595	ERJ3EKF1000	M 100 OHM, 1/16W	
R1596	ERJ3EKF1000	M 100 OHM, 1/16W	
R1597	ERJ3EKF1000	M 100 OHM, 1/16W	
R1598	ERJ3EKF1000	M 100 OHM, 1/16W	
R1600	ERJ3GEYJ470	M 47 OHM,J,1/16W	
R1601	EXB28V560J	RESISTOR ARRAY	
R1602	EXB28V560J	RESISTOR ARRAY	
R1603	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1604	ERJ3GEYJ220	M 22 OHM,J,1/16W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1605	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1606	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1609	EXB28V560J	RESISTOR ARRAY	
R1610	EXB28V560J	RESISTOR ARRAY	
R1611	ERJ3GEYJ123	M 12K OHM,J,1/16W	
R1612	ERJ2GE0R00	M 0 OHM, 0.063W	
R1613	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R1614	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1615	ERJ2GE0R00	M 0 OHM, 0.063W	
R1616	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1617	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1619	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R1620	ERJ3GEYJ104	M 100KOHM,J,1/16W	
R1622	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1623	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1624	ERJ3EKF5903	M 590KOHM, 1/16W	
R1625	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1626	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1627	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1628	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1629	ERJ3GEYJ222	M 2.2KOHM,J,1/16W	
R1630	ERJ2GEJ103	M 10K OHM, 0.063W	
R1631	ERJ2GEJ103	M 10K OHM, 0.063W	
R1632	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1633	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1634	ERJ6GEYJ473	M 47KOHM,J,1/10W	
R1635	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1636	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1637	ERJ3GEYJ473	M 47K OHM,J,1/16W	
R1638	ERJ3GEYJ101	M 100 OHM,J,1/16W	D0GB101JA002
R1639	ERJ6GEYJ101	M 100 OHM,J,1/10W	
R1640	EXB28V102J	RESISTOR ARRAY	
R1641	ERJ3EKF5621	M5.62KOHM, 1/16W	
R1642	ERJ3EKF5621	M5.62KOHM, 1/16W	
R1643	ERJ3EKF1101	M 1.1KOHM, 1/16W	
R1644	ERJ3EKF1101	M 1.1KOHM, 1/16W	
R1645	ERJ3EKF1101	M 1.1KOHM, 1/16W	
R1646	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1647	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1648	ERJ3GEYJ124	M 120KOHM,J,1/16W	
R1649	ERJ2GEJ220	M 22 OHM, 0.063W	
R1650	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1651	EXB28V102J	RESISTOR ARRAY	
R1652	EXB38V220J	RESISTOR ARRAY	
R1653	ERJ3GEYJ103	M 10K OHM,J,1/16W	
R1654	ERJ3EKF3923	M 392KOHM, 1/16W	
R1655	ERJ3EKF3923	M 392KOHM, 1/16W	
R1656	ERJ3EKF3923	M 392KOHM, 1/16W	
R1657	ERJ3GEYJ821	M 820 OHM,J,1/16W	
R1658	ERJ6GEYJ105	M 1MOHM,J,1/10W	
R1659	ERJ3GEYJ105	M 1M OHM,J,1/16W	
R1660	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1661	EXB28V560J	RESISTOR ARRAY	
R1662	EXB38V220J	RESISTOR ARRAY	
R1663	EXB28V560J	RESISTOR ARRAY	
R1664	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1665	ERJ2GEJ472	M 4.7KOHM, 0.063W	
R1666	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1667	ERJ3GEYJ510	M 51 OHM,J,1/16W	
R1668	ERJ3GEYJ510	M 51 OHM,J,1/16W	
R1669	ERJ3EKF1002	M 10KOHM, 1/16W	
R1670	ERJ3EKF1002	M 10KOHM, 1/16W	
R1671	ERJ3GEYJ391	M 390 OHM,J,1/16W	D0GB391JA002
R1672	ERJ3EKF1691	M1.69KOHM, 1/16W	
R1673	ERJ3GEYJ561	M 560 OHM,J,1/16W	
R1674	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1675	ERJ3GEYJ333	M 33K OHM,J,1/16W	
R1676	ERJ3GEYJ224	M 220KOHM,J,1/16W	
R1677	ERJ3GEYJ102	M 1K OHM,J,1/16W	
R1679	ERJ3GEYJ220	M 22 OHM,J,1/16W	
R1680	ERJ2GEJ103	M 10K OHM, 0.063W	
R1681	ERJ2GEJ103	M 10K OHM, 0.063W	
R1682	ERJ2GEJ103	M 10K OHM, 0.063W	

Ref. No.	Part No.	Part Name & Description	Remarks
R1683	ERJ2GEJ103	M 10K OHM, 0.063W	
R1684	ERJ2GEJ103	M 10K OHM, 0.063W	
R1687	ERJ2GEJ220	M 22 OHM, 0.063W	
R1688	ERJ2GEJ220	M 22 OHM, 0.063W	
R1689	ERJ3GEYJ103	M 10K OHM, J, 1/16W	
R1692	ERJ3GEYJ471	M 470 OHM, J, 1/16W	
R1693	ERJ3GEYJ560	M 56 OHM, J, 1/16W	
R1696	ERJ3GEYJ471	M 470 OHM, J, 1/16W	
R1697	ERJ3GEYJ560	M 56 OHM, J, 1/16W	
R1705	ERJ2GEJ220	M 22 OHM, 0.063W	
R1706	ERJ3GEYJ102	M 1K OHM, J, 1/16W	
R1707	ERJ3GEYJ331	M 330 OHM, J, 1/16W	
R1708	ERJ3GEYJ331	M 330 OHM, J, 1/16W	
R1709	ERJ3GEYJ331	M 330 OHM, J, 1/16W	
R1710	ERJ2GEJ101	M 100 OHM, 0.063W	
R1711	ERJ2GEJ101	M 100 OHM, 0.063W	
R1712	ERJ3GEYJ102	M 1K OHM, J, 1/16W	
R1713	ERJ3GEYJ331	M 330 OHM, J, 1/16W	
R1714	ERJ3GEYJ331	M 330 OHM, J, 1/16W	
R1715	EXB28V220J	RESISTOR ARRAY	
R1717	ERJ3GEY0R00	M 0 OHM, 1/16W	
R1718	ERJ2GEJ103	M 10K OHM, 0.063W	
R1719	ERJ2GEJ103	M 10K OHM, 0.063W	
R1720	ERJ2GEJ103	M 10K OHM, 0.063W	
R1721	ERJ2GEJ103	M 10K OHM, 0.063W	
R1722	ERJ2GEJ103	M 10K OHM, 0.063W	
R1723	ERJ2GEJ103	M 10K OHM, 0.063W	
R1728	ERJ2GEJ220	M 22 OHM, 0.063W	
R1729	EXB28V102J	RESISTOR ARRAY	
R1730	EXB28V102J	RESISTOR ARRAY	
R1732	ERJ2GEJ102	M 1K OHM, 0.063W	
R1733	EXB28V560J	RESISTOR ARRAY	
R1734	ERJ3GEYJ331	M 330 OHM, J, 1/16W	
R1736	EXB28V560J	RESISTOR ARRAY	
R1738	ERJ3GEYJ331	M 330 OHM, J, 1/16W	
R1739	ERJ2GEJ220	M 22 OHM, 0.063W	
R1740	ERJ2GEJ220	M 22 OHM, 0.063W	
R1741	ERJ2GEJ220	M 22 OHM, 0.063W	
R1742	ERJ2GEJ220	M 22 OHM, 0.063W	
R1743	ERJ2GEJ220	M 22 OHM, 0.063W	
R1744	ERJ2GEJ220	M 22 OHM, 0.063W	
R1745	ERJ2GEJ220	M 22 OHM, 0.063W	
R1746	ERJ2GEJ220	M 22 OHM, 0.063W	
R1747	ERJ3GEYJ221	M 220 OHM, J, 1/16W	
R1748	ERJ3GEYJ221	M 220 OHM, J, 1/16W	
R1749	EXB28V560J	RESISTOR ARRAY	
R1750	ERJ3GEYJ221	M 220 OHM, J, 1/16W	
R1751	ERJ3GEYJ221	M 220 OHM, J, 1/16W	
R1755	ERJ2GEJ220	M 22 OHM, 0.063W	
R1756	ERJ2GEJ220	M 22 OHM, 0.063W	
R2001	ERJ3EKF5601	M 5.6KOHM, 1/16W	
R2002	ERJ3EKF1501	M 1.5KOHM, 1/16W	
R2003	ERJ3EKF1501	M 1.5KOHM, 1/16W	
R2004	ERJ3EKF2701	M 2.7KOHM, 1/16W	
R2005	ERJ3EKF6801	M 6.8KOHM, 1/16W	
R2006	ERJ3EKF3302	M 33KOHM, 1/16W	
R2007	ERJ3EKF5601	M 5.6KOHM, 1/16W	
R2008	ERJ3EKF1501	M 1.5KOHM, 1/16W	
R2009	ERJ3EKF1501	M 1.5KOHM, 1/16W	
R2010	ERJ3EKF2701	M 2.7KOHM, 1/16W	
R2011	ERJ3EKF6801	M 6.8KOHM, 1/16W	
R2012	ERJ3EKF3302	M 33KOHM, 1/16W	
R2013	ERJ3GEYJ100	M 10 OHM, J, 1/16W	
R2014	ERJ3GEYJ100	M 10 OHM, J, 1/16W	
R2015	EXB38V101J	RESISTOR ARRAY	
R2019	ERJ3GEYJ331	M 330 OHM, J, 1/16W	
R2020	ERJ3GEYJ331	M 330 OHM, J, 1/16W	
R2021	ERJ3GEYJ331	M 330 OHM, J, 1/16W	
R2022	ERJ3GEYJ331	M 330 OHM, J, 1/16W	
R2023	ERJ3GEYJ330	M 33 OHM, J, 1/16W	
R2024	ERJ3GEYJ470	M 47 OHM, J, 1/16W	
R2201	EXB38V220J	RESISTOR ARRAY	
R3401	ERJ6GEYJ750	M 75 OHM, J, 1/10W	PT-AE700E

Ref. No.	Part No.	Part Name & Description	Remarks
R3402	ERJ6GEYJ750	M 75 OHM, J, 1/10W	PT-AE700E
R3403	ERJ6ENF75R0	M 75 OHM, 1/10W	PT-AE700E
R3404	ERJ3GEYJ472	M 4.7KOHM, J, 1/16W	PT-AE700E
R3405	ERJ3GEYJ472	M 4.7KOHM, J, 1/16W	PT-AE700E
R3406	ERJ3GEYJ153	M 15KOHM, J, 1/16W	PT-AE700E
R3409	ERJ3GEYJ472	M 4.7KOHM, J, 1/16W	PT-AE700E
R3410	ERJ3GEYJ562	M 5.6KOHM, J, 1/16W	PT-AE700E
R3412	ERJ3GEYJ560	M 56 OHM, J, 1/16W	PT-AE700E
R3413	ERJ3GEYJ471	M 470 OHM, J, 1/16W	PT-AE700E
R3414	ERJ3GEYJ101	M 100 OHM, J, 1/16W	PT-AE700E
R3415	ERJ3GEYJ471	M 470 OHM, J, 1/16W	PT-AE700E
R3416	ERJ3GEYJ103	M 10K OHM, J, 1/16W	PT-AE700E
R3417	ERJ3GEYJ471	M 470 OHM, J, 1/16W	PT-AE700E
R3418	ERJ6ENF75R0	M 75 OHM, 1/10W	PT-AE700E
R3419	ERJ6ENF75R0	M 75 OHM, 1/10W	PT-AE700E
R3420	ERJ3GEYJ472	M 4.7KOHM, J, 1/16W	PT-AE700E
R3421	ERJ3GEYJ562	M 5.6KOHM, J, 1/16W	PT-AE700E
R3422	ERJ3GEYJ562	M 5.6KOHM, J, 1/16W	PT-AE700E
R3423	ERJ3GEYJ562	M 5.6KOHM, J, 1/16W	PT-AE700E
R3424	ERJ3GEYJ560	M 56 OHM, J, 1/16W	PT-AE700E
R3425	ERJ3GEYJ560	M 56 OHM, J, 1/16W	PT-AE700E
R3426	ERJ3GEYJ471	M 470 OHM, J, 1/16W	PT-AE700E
R3427	ERJ3GEYJ560	M 56 OHM, J, 1/16W	PT-AE700E
R9101	ERDS1TJ474	C 4.7KOHM, J, 1/2W	△
R9102	D0A1825JA015	RESISTOR	△
R9601	ERX2SJR47	M0.47 OHM, J, 2W	
R9630	ERJ14YJ3R3	M 3.3 OHM, J, 1/4W	
R9636	ERJ14YJ3R3	M 3.3 OHM, J, 1/4W	
R9653	D0XGR22KA001	RESISTOR	
[CAPACITORS]			
C1001	EEH0B0J330R	E 33UF, 6.3V	
C1002	EEH0B1A101P	E 100UF, 10V	
C1003	ECJ0EB1C103K	C 0.01UF, 16V	
C1004	EEH0B0J330R	E 33UF, 6.3V	
C1005	ECJ0EB1C103K	C 0.01UF, 16V	
C1006	EEH0B0J330R	E 33UF, 6.3V	
C1007	ECJ0EF1C104Z	C 0.1UF, 16V	
C1008	ECJ0EB1C103K	C 0.01UF, 16V	
C1009	EEH0B0J330R	E 33UF, 6.3V	
C1010	ECJ0EB1C103K	C 0.01UF, 16V	
C1011	ECJ0EB1C103K	C 0.01UF, 16V	
C1012	ECJ1XB1H102K	C 1000PF, K, 50V	
C1013	ECJ1XB1H102K	C 1000PF, K, 50V	
C1014	EEH0B0J330R	E 33UF, 6.3V	
C1016	ECJ0EF1C104Z	C 0.1UF, 16V	
C1017	ECJ1XC1H221J	C 220PF, 50V	
C1018	ECJ1VC1H270J	C 27PF, J, 50V	
C1019	ECJ1XC1H120J	C 12PF, 50V	
C1020	ECJ0EF1C104Z	C 0.1UF, 16V	
C1022	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1023	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1024	ECJ0EF1C104Z	C 0.1UF, 16V	
C1030	ECJ0EF1C104Z	C 0.1UF, 16V	
C1031	EEH0B0J470R	E 47UF, 6.3V	
C1039	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1040	ECJ0EF1C104Z	C 0.1UF, 16V	
C1043	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1045	EEH0B1C100R	E 10UF, 16V	
C1046	ECJ0EF1C104Z	C 0.1UF, 16V	
C1047	ECJ0EF1C104Z	C 0.1UF, 16V	
C1048	ECJ2FF1A106Z	C 10UF, 10V	
C1049	ECJ0EF1C104Z	C 0.1UF, 16V	
C1052	ECJ0EF1C104Z	C 0.1UF, 16V	
C1053	ECJ0EB1C103K	C 0.01UF, 16V	
C1054	ECJ2FF1A106Z	C 10UF, 10V	
C1055	EEH0B1C100R	E 10UF, 16V	
C1056	ECJ0EF1C104Z	C 0.1UF, 16V	
C1057	ECJ0EF1C104Z	C 0.1UF, 16V	
C1058	ECJ0EF1C104Z	C 0.1UF, 16V	
C1059	ECJ0EB1C103K	C 0.01UF, 16V	
C1060	EEH0B0G101R	E 100UF, 4V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1061	ECJ0EF1C104Z	C 0.1UF, 16V	
C1062	ECJ0EF1C104Z	C 0.1UF, 16V	
C1063	ECJ0EF1C104Z	C 0.1UF, 16V	
C1064	ECJ0EF1C104Z	C 0.1UF, 16V	
C1065	ECJ0EF1C104Z	C 0.1UF, 16V	
C1067	ECJ0EF1C104Z	C 0.1UF, 16V	
C1068	ECJ0EF1C104Z	C 0.1UF, 16V	
C1070	ECJ0EF1C104Z	C 0.1UF, 16V	
C1071	ECJ0EF1C104Z	C 0.1UF, 16V	
C1072	ECJ0EF1C104Z	C 0.1UF, 16V	
C1073	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1074	ECJ0EF1C104Z	C 0.1UF, 16V	
C1075	ECJ0EF1C104Z	C 0.1UF, 16V	
C1076	ECJ1XB1H102K	C 1000PF, K, 50V	
C1077	ECJ0EF1C104Z	C 0.1UF, 16V	
C1078	ECJ0EF1C104Z	C 0.1UF, 16V	
C1079	ECJ1VB1C823K	C 0.82UF, 16V	
C1080	ECJ0EB1C822K	C 8200PF, 16V	
C1081	ECJ0EF1C104Z	C 0.1UF, 16V	
C1082	ECJ1XC1H120J	C 12PF, 50V	
C1083	ECJ1XC1H120J	C 12PF, 50V	
C1084	EEHB1C470P	E 47UF, 16V	
C1085	ECJ1XC1H120J	C 12PF, 50V	
C1086	ECJ1VC1H270J	C 27PF, J, 50V	
C1087	ECJ0EF1C104Z	C 0.1UF, 16V	
C1088	ECJ1VC1H270J	C 27PF, J, 50V	
C1089	ECJ1VC1H270J	C 27PF, J, 50V	
C1090	ECJ0EF1C104Z	C 0.1UF, 16V	
C1091	ECJ0EF1C104Z	C 0.1UF, 16V	
C1093	ECJ1XC1H330J	C 33PF, J, 50V	
C1094	ECJ0EF1C104Z	C 0.1UF, 16V	
C1095	ECJ0EF1C104Z	C 0.1UF, 16V	
C1096	ECJ0EF1C104Z	C 0.1UF, 16V	
C1097	ECJ0EF1C104Z	C 0.1UF, 16V	
C1099	ECJ0EF1C104Z	C 0.1UF, 16V	
C1101	ECJ0EF1C104Z	C 0.1UF, 16V	
C1102	EEFCD0D101R	CAPACITOR	
C1103	EEHB1C470P	E 47UF, 16V	
C1105	ECJ0EF1C104Z	C 0.1UF, 16V	
C1106	EEHB0G101R	E 100UF, 4V	
C1107	ECJ0EF1C104Z	C 0.1UF, 16V	
C1108	ECJ0EF1C104Z	C 0.1UF, 16V	
C1112	ECJ0EF1C104Z	C 0.1UF, 16V	
C1113	ECJ0EF1C104Z	C 0.1UF, 16V	
C1114	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1115	EEHB1C470P	E 47UF, 16V	
C1117	EEHB1C470P	E 47UF, 16V	
C1198	ECJ0EF1C104Z	C 0.1UF, 16V	
C1199	ECJ0EF1C104Z	C 0.1UF, 16V	
C1200	ECJ0EF1C104Z	C 0.1UF, 16V	
C1201	ECJ0EF1C104Z	C 0.1UF, 16V	
C1202	ECJ0EF1C104Z	C 0.1UF, 16V	
C1203	ECJ0EF1C104Z	C 0.1UF, 16V	
C1204	ECJ0EF1C104Z	C 0.1UF, 16V	
C1205	ECJ0EF1C104Z	C 0.1UF, 16V	
C1206	ECJ0EF1C104Z	C 0.1UF, 16V	
C1207	ECJ0EF1C104Z	C 0.1UF, 16V	
C1208	ECJ0EF1C104Z	C 0.1UF, 16V	
C1209	ECJ0EF1C104Z	C 0.1UF, 16V	
C1210	ECJ0EF1C104Z	C 0.1UF, 16V	
C1211	ECJ0EF1C104Z	C 0.1UF, 16V	
C1212	ECJ0EF1C104Z	C 0.1UF, 16V	
C1213	ECJ0EF1C104Z	C 0.1UF, 16V	
C1214	ECJ0EF1C104Z	C 0.1UF, 16V	
C1215	ECJ0EF1C104Z	C 0.1UF, 16V	
C1216	ECJ0EF1C104Z	C 0.1UF, 16V	
C1217	ECJ0EF1C104Z	C 0.1UF, 16V	
C1218	ECJ0EF1C104Z	C 0.1UF, 16V	
C1219	EEHB0G101R	E 100UF, 4V	
C1222	ECJ0EF1C104Z	C 0.1UF, 16V	
C1223	ECJ0EF1C104Z	C 0.1UF, 16V	
C1224	ECJ0EF1C104Z	C 0.1UF, 16V	
C1225	ECJ0EF1C104Z	C 0.1UF, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1226	ECJ0EF1C104Z	C 0.1UF, 16V	
C1227	ECJ0EF1C104Z	C 0.1UF, 16V	
C1228	ECJ0EF1C104Z	C 0.1UF, 16V	
C1229	ECJ0EF1C104Z	C 0.1UF, 16V	
C1230	ECJ0EF1C104Z	C 0.1UF, 16V	
C1231	ECJ0EF1C104Z	C 0.1UF, 16V	
C1233	ECJ0EF1C104Z	C 0.1UF, 16V	
C1235	ECJ0EF1C104Z	C 0.1UF, 16V	
C1236	ECJ0EF1C104Z	C 0.1UF, 16V	
C1237	ECJ0EF1C104Z	C 0.1UF, 16V	
C1238	ECJ0EF1C104Z	C 0.1UF, 16V	
C1239	ECJ0EF1C104Z	C 0.1UF, 16V	
C1240	ECJ0EF1C104Z	C 0.1UF, 16V	
C1241	ECJ0EF1C104Z	C 0.1UF, 16V	
C1242	ECJ0EF1C104Z	C 0.1UF, 16V	
C1243	ECJ0EF1C104Z	C 0.1UF, 16V	
C1244	ECJ0EF1C104Z	C 0.1UF, 16V	
C1245	ECJ0EF1C104Z	C 0.1UF, 16V	
C1246	ECJ0EF1C104Z	C 0.1UF, 16V	
C1247	EEHB0G101R	E 100UF, 4V	
C1248	ECJ1XC1H331J	C 330PF, J, 50V	
C1292	ECJ1XC1H330J	C 33PF, J, 50V	
C1298	ECJ0EF1C104Z	C 0.1UF, 16V	
C1299	EEHB0G221P	E 220UF, 4V	
C1300	EEHB0G221P	E 220UF, 4V	
C1304	ECJ0EF1C104Z	C 0.1UF, 16V	
C1306	ECJ1XF1A105Z	C 100UF, 10V	
C1314	ECJ0EF1C104Z	C 0.1UF, 16V	
C1315	ECJ0EF1C104Z	C 0.1UF, 16V	
C1316	ECJ1XF1H333Z	C 0.033UF, 50V	
C1317	ECJ0EF1C104Z	C 0.1UF, 16V	
C1319	ECJ0EF1C104Z	C 0.1UF, 16V	
C1320	ECJ0EF1C104Z	C 0.1UF, 16V	
C1321	ECJ0EF1C104Z	C 0.1UF, 16V	
C1322	ECJ1XC1H471J	C 470PF, J, 50V	
C1323	ECJ0EF1C104Z	C 0.1UF, 16V	
C1324	ECJ0EF1C104Z	C 0.1UF, 16V	
C1325	ECJ0EF1C104Z	C 0.1UF, 16V	
C1328	ECJ0EF1C104Z	C 0.1UF, 16V	
C1329	ECJ0EF1C104Z	C 0.1UF, 16V	
C1330	ECJ0EF1C104Z	C 0.1UF, 16V	
C1331	EEHB0G101R	E 100UF, 4V	
C1332	ECJ0EF1C104Z	C 0.1UF, 16V	
C1333	EEHB0J330R	E 33UF, 6.3V	
C1334	ECJ0EF1C104Z	C 0.1UF, 16V	
C1335	EEHB0G101R	E 100UF, 4V	
C1337	ECJ0EF1C104Z	C 0.1UF, 16V	
C1338	ECJ0EF1C104Z	C 0.1UF, 16V	
C1339	ECJ0EF1C104Z	C 0.1UF, 16V	
C1340	ECJ0EF1C104Z	C 0.1UF, 16V	
C1341	ECJ0EF1C104Z	C 0.1UF, 16V	
C1342	ECJ0EF1C104Z	C 0.1UF, 16V	
C1343	ECJ0EF1C104Z	C 0.1UF, 16V	
C1344	ECJ0EF1C104Z	C 0.1UF, 16V	
C1345	ECJ0EF1C104Z	C 0.1UF, 16V	
C1346	ECJ0EF1C104Z	C 0.1UF, 16V	
C1347	ECJ0EF1C104Z	C 0.1UF, 16V	
C1348	ECJ0EF1C104Z	C 0.1UF, 16V	
C1349	ECJ0EF1C104Z	C 0.1UF, 16V	
C1350	ECJ0EF1C104Z	C 0.1UF, 16V	
C1351	ECJ0EF1C104Z	C 0.1UF, 16V	
C1352	ECJ0EF1C104Z	C 0.1UF, 16V	
C1353	ECJ0EF1C104Z	C 0.1UF, 16V	
C1354	ECJ0EF1C104Z	C 0.1UF, 16V	
C1355	ECJ0EF1C104Z	C 0.1UF, 16V	
C1356	ECJ0EF1C104Z	C 0.1UF, 16V	
C1357	ECJ0EF1C104Z	C 0.1UF, 16V	
C1358	ECJ0EF1C104Z	C 0.1UF, 16V	
C1359	ECJ0EF1C104Z	C 0.1UF, 16V	
C1360	ECJ0EF1C104Z	C 0.1UF, 16V	
C1361	ECJ0EF1C104Z	C 0.1UF, 16V	
C1362	ECJ0EF1C104Z	C 0.1UF, 16V	
C1363	ECJ0EF1C104Z	C 0.1UF, 16V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1364	ECJ0EF1C104Z	C 0.1UF, 16V	
C1365	ECJ0EF1C104Z	C 0.1UF, 16V	
C1366	ECJ0EF1C104Z	C 0.1UF, 16V	
C1367	ECJ0EF1C104Z	C 0.1UF, 16V	
C1368	ECJ0EF1C104Z	C 0.1UF, 16V	
C1369	ECJ0EF1C104Z	C 0.1UF, 16V	
C1370	ECJ0EF1C104Z	C 0.1UF, 16V	
C1371	EEH1B1E4R7R	E 4.7UF, 25V	
C1372	ECJ0EF1C104Z	C 0.1UF, 16V	
C1373	EEH1B1E4R7R	E 4.7UF, 25V	
C1374	EEH1B1A101P	E 100UF, 10V	
C1375	EEH1B0G101R	E 100UF, 4V	
C1376	EEH1B0G101R	E 100UF, 4V	
C1377	EEH1B0G101R	E 100UF, 4V	
C1378	ECJ0EF1C104Z	C 0.1UF, 16V	
C1379	ECJ0EF1C104Z	C 0.1UF, 16V	
C1380	ECJ0EF1C104Z	C 0.1UF, 16V	
C1381	ECJ0EB1C103K	C 0.01UF, 16V	
C1382	ECJ0EF1C104Z	C 0.1UF, 16V	
C1383	ECJ0EB1C103K	C 0.01UF, 16V	
C1384	ECJ0EF1C104Z	C 0.1UF, 16V	
C1385	ECJ0EB1C103K	C 0.01UF, 16V	
C1386	ECJ0EF1C104Z	C 0.1UF, 16V	
C1387	ECJ0EF1C104Z	C 0.1UF, 16V	
C1388	ECJ0EF1C104Z	C 0.1UF, 16V	
C1389	ECJ0EF1C104Z	C 0.1UF, 16V	
C1390	ECJ0EF1C104Z	C 0.1UF, 16V	
C1391	ECJ0EF1C104Z	C 0.1UF, 16V	
C1392	ECJ0EF1C104Z	C 0.1UF, 16V	
C1393	ECJ0EF1C104Z	C 0.1UF, 16V	
C1394	ECJ0EF1C104Z	C 0.1UF, 16V	
C1395	ECJ0EF1C104Z	C 0.1UF, 16V	
C1396	ECJ0EF1C104Z	C 0.1UF, 16V	
C1397	ECJ0EF1C104Z	C 0.1UF, 16V	
C1398	ECJ0EF1C104Z	C 0.1UF, 16V	
C1399	ECJ0EF1C104Z	C 0.1UF, 16V	
C1400	ECJ0EF1C104Z	C 0.1UF, 16V	
C1401	ECJ0EF1C104Z	C 0.1UF, 16V	
C1402	ECJ0EF1C104Z	C 0.1UF, 16V	
C1403	ECJ0EF1C104Z	C 0.1UF, 16V	
C1404	ECJ0EF1C104Z	C 0.1UF, 16V	
C1405	ECJ0EF1C104Z	C 0.1UF, 16V	
C1406	ECJ0EF1C104Z	C 0.1UF, 16V	
C1407	ECJ0EF1C104Z	C 0.1UF, 16V	
C1408	ECJ0EF1C104Z	C 0.1UF, 16V	
C1409	ECJ0EF1C104Z	C 0.1UF, 16V	
C1410	ECJ0EF1C104Z	C 0.1UF, 16V	
C1411	ECJ0EF1C104Z	C 0.1UF, 16V	
C1412	ECJ0EF1C104Z	C 0.1UF, 16V	
C1413	ECJ0EF1C104Z	C 0.1UF, 16V	
C1414	ECJ0EF1C104Z	C 0.1UF, 16V	
C1415	ECJ0EF1C104Z	C 0.1UF, 16V	
C1416	ECJ0EF1C104Z	C 0.1UF, 16V	
C1417	ECJ0EF1C104Z	C 0.1UF, 16V	
C1418	ECJ0EF1C104Z	C 0.1UF, 16V	
C1419	ECJ0EF1C104Z	C 0.1UF, 16V	
C1420	ECJ0EF1C104Z	C 0.1UF, 16V	
C1421	ECJ0EF1C104Z	C 0.1UF, 16V	
C1422	ECJ0EF1C104Z	C 0.1UF, 16V	
C1423	ECJ0EF1C104Z	C 0.1UF, 16V	
C1424	ECJ0EF1C104Z	C 0.1UF, 16V	
C1425	ECJ0EF1C104Z	C 0.1UF, 16V	
C1426	ECJ0EF1C104Z	C 0.1UF, 16V	
C1427	ECJ0EF1C104Z	C 0.1UF, 16V	
C1428	ECJ0EF1C104Z	C 0.1UF, 16V	
C1429	EEH1B1E330P	E 33UF, 25V	
C1430	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1431	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1432	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1433	EEH1B1E330P	E 33UF, 25V	
C1434	EEH1B1E330P	E 33UF, 25V	
C1435	EEH1B1E330P	E 33UF, 25V	
C1436	ECJ1XF1E104Z	C 0.1UF, Z, 25V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1437	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1438	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1439	EEH1B1E330P	E 33UF, 25V	
C1440	EEH1B1E330P	E 33UF, 25V	
C1441	EEH1B1E330P	E 33UF, 25V	
C1442	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1443	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1444	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1466	ECJ0EF1C104Z	C 0.1UF, 16V	
C1468	ECJ0EF1C104Z	C 0.1UF, 16V	
C1471	EEH1B0G101R	E 100UF, 4V	
C1472	EEH1B0G101R	E 100UF, 4V	
C1501	ECJ1XF1A105Z	C 100UF, 10V	
C1503	ECJ1XF1A105Z	C 100UF, 10V	
C1504	ECJ0EF1C104Z	C 0.1UF, 16V	
C1505	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1506	ECJ1XF1E104Z	C 0.1UF, Z, 25V	
C1507	EEH1B1E330P	E 33UF, 25V	
C1508	EEH1B1E330P	E 33UF, 25V	
C1509	ECJ1XC1H120J	C 12PF, 50V	
C1510	ECJ1XC1H120J	C 12PF, 50V	
C1544	ECJ1XF1C474Z	C 0.47UF, Z, 16V	
C1546	EEFCD0J470R	CAPACITOR	
C1547	ECJ1XC1H101J	C 100PF, J, 50V	
C1551	EEH1B0G101R	E 100UF, 4V	
C1552	ECJ0EF1C104Z	C 0.1UF, 16V	
C1553	ECJ0EF1C104Z	C 0.1UF, 16V	
C1554	EEH1B0G101R	E 100UF, 4V	
C1555	ECJ0EF1C104Z	C 0.1UF, 16V	
C1556	EEH1B1A330R	E 33UF, 10V	
C1557	ECJ0EF1C104Z	C 0.1UF, 16V	
C1559	ECJ0EF1C104Z	C 0.1UF, 16V	
C1563	ECJ0EF1C104Z	C 0.1UF, 16V	
C1565	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1566	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1568	ECJ0EF1C104Z	C 0.1UF, 16V	
C1569	ECJ0EF1C104Z	C 0.1UF, 16V	
C1570	ECJ0EF1C104Z	C 0.1UF, 16V	
C1571	ECJ0EF1C104Z	C 0.1UF, 16V	
C1572	ECJ0EF1C104Z	C 0.1UF, 16V	
C1573	ECJ0EF1C104Z	C 0.1UF, 16V	
C1574	ECJ0EF1C104Z	C 0.1UF, 16V	
C1575	ECJ0EF1C104Z	C 0.1UF, 16V	
C1576	ECJ0EF1C104Z	C 0.1UF, 16V	
C1577	ECJ0EF1C104Z	C 0.1UF, 16V	
C1578	ECJ0EF1C104Z	C 0.1UF, 16V	
C1579	ECJ0EF1C104Z	C 0.1UF, 16V	
C1581	ECJ0EF1C104Z	C 0.1UF, 16V	
C1583	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1584	ECJ0EF1C104Z	C 0.1UF, 16V	
C1586	EEH1B0J330R	E 33UF, 6.3V	
C1589	ECJ1XB1H102K	C 1000PF, K, 50V	
C1590	ECJ1XB1H102K	C 1000PF, K, 50V	
C1591	ECJ1XB1H102K	C 1000PF, K, 50V	
C1594	ECJ1XB1H102K	C 1000PF, K, 50V	
C1595	ECJ1XB1H102K	C 1000PF, K, 50V	
C1596	ECJ1XB1H102K	C 1000PF, K, 50V	
C1597	ECJ1XB1H102K	C 1000PF, K, 50V	
C1598	ECJ1XB1H102K	C 1000PF, K, 50V	
C1599	ECJ1XB1H102K	C 1000PF, K, 50V	
C1600	EEH1B0J330R	E 33UF, 6.3V	
C1601	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1602	ECJ1XC1H221J	C 220PF, 50V	
C1603	ECJ1XB1H102K	C 1000PF, K, 50V	
C1604	ECJ0EF1C104Z	C 0.1UF, 16V	
C1605	EEH1B1C470P	E 47UF, 16V	
C1606	EEH1B1C470P	E 47UF, 16V	
C1607	ECJ1XF1C474Z	C 0.47UF, Z, 16V	
C1608	ECJ1XF1C474Z	C 0.47UF, Z, 16V	
C1609	ECJ1XF1A105Z	C 100UF, 10V	
C1610	ECJ1XF1C105Z	C 0.01UF, Z, 16V	
C1611	ECJ1XF1C105Z	C 0.01UF, Z, 16V	
C1612	ECJ1XF1A105Z	C 100UF, 10V	

Ref. No.	Part No.	Part Name & Description	Remarks
C1613	ECJ1XF1C105Z	C 0.01UF, Z, 16V	
C1614	ECJ1XF1C105Z	C 0.01UF, Z, 16V	
C1615	ECJ1XF1C105Z	C 0.01UF, Z, 16V	
C1616	ECJ1XF1C105Z	C 0.01UF, Z, 16V	
C1617	ECJ1XF1C105Z	C 0.01UF, Z, 16V	
C1618	ECJ2XB1H472K	C 2700PF, K, 50V	
C1619	ECJ2XB1C224K	C 0.22UF, K, 16V	
C1620	ECJ2XB1C224K	C 0.22UF, K, 16V	
C1621	ECJ1XC1H100C	C 10PF, 50V	
C1622	ECJ1XC1H100C	C 10PF, 50V	
C1623	ECJ2VB1H821K	C 820PF, 50V	
C1624	ECJ2XB1H152K	C 1500PF, K, 50V	
C1625	ECJ2XB1H332K	C 3300PF, K, 50V	
C1626	ECJ0EF1C104Z	C 0.1UF, 16V	
C1627	ECJ1XF1C105Z	C 0.01UF, Z, 16V	
C1631	ECJ0EF1C104Z	C 0.1UF, 16V	
C1632	ECJ0EF1C104Z	C 0.1UF, 16V	
C1633	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1635	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1636	ECJ1XB1H102K	C 1000PF, K, 50V	
C1637	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1638	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1639	ECJ1XB1H102K	C 1000PF, K, 50V	
C1640	ECJ1XB1H102K	C 1000PF, K, 50V	
C1641	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1642	ECJ1XB1H102K	C 1000PF, K, 50V	
C1643	ECJ1XB1H102K	C 1000PF, K, 50V	
C1644	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1645	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1646	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1647	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1649	ECJ1XB1H102K	C 1000PF, K, 50V	
C1652	ECJ1XF1C105Z	C 0.01UF, Z, 16V	
C1653	ECJ1XF1C105Z	C 0.01UF, Z, 16V	
C1654	ECJ1XF1A105Z	C 100UF, 10V	
C1655	ECJ1XF1A105Z	C 100UF, 10V	
C1658	ECJ0EF1C104Z	C 0.1UF, 16V	
C1659	ECJ0EF1C104Z	C 0.1UF, 16V	
C1660	ECJ0EF1C104Z	C 0.1UF, 16V	
C1661	ECJ0EF1C104Z	C 0.1UF, 16V	
C1662	ECJ0EF1C104Z	C 0.1UF, 16V	
C1663	ECJ0EF1C104Z	C 0.1UF, 16V	
C1664	ECJ0EF1C104Z	C 0.1UF, 16V	
C1665	ECJ0EF1C104Z	C 0.1UF, 16V	
C1666	ECJ0EF1C104Z	C 0.1UF, 16V	
C1667	ECJ0EF1C104Z	C 0.1UF, 16V	
C1668	ECJ0EF1C104Z	C 0.1UF, 16V	
C1669	ECJ0EF1C104Z	C 0.1UF, 16V	
C1670	ECJ0EF1C104Z	C 0.1UF, 16V	
C1671	ECJ0EF1C104Z	C 0.1UF, 16V	
C1672	ECJ0EF1C104Z	C 0.1UF, 16V	
C1673	ECJ1XF1C105Z	C 0.01UF, Z, 16V	
C1674	EEHB1C100R	E 10UF, 16V	
C1675	ECJ0EF1C104Z	C 0.1UF, 16V	
C1676	ECJ2XF1C225Z	C 2.2UF, Z, 16V	
C1677	ECJ1XB1H102K	C 1000PF, K, 50V	
C1678	EEHB0J470R	E 47UF, 6.3V	
C2002	ECJ0EF1C104Z	C 0.1UF, 16V	
C2004	EEHB0J470R	E 47UF, 6.3V	
C2005	ECJ0EF1C104Z	C 0.1UF, 16V	
C3402	EEHB0J330R	E 33UF, 6.3V	PT-AE700E
C3405	ECJ0EB1C103K	C 0.01UF, 16V	PT-AE700E
C3406	ECJ0EB1C103K	C 0.01UF, 16V	PT-AE700E
C3407	EEHB0J330R	E 33UF, 6.3V	PT-AE700E
C3408	ECJ0EB1C103K	C 0.01UF, 16V	PT-AE700E
C3409	ECJ0EF1C104Z	C 0.1UF, 16V	PT-AE700E
C3410	EEHB0J330R	E 33UF, 6.3V	PT-AE700E
C3411	EEHB0J330R	E 33UF, 6.3V	PT-AE700E
C3412	ECJ0EF1C104Z	C 0.1UF, 16V	PT-AE700E
C9101	ECQU2A334MLA	P 0.33UF, 250V	△
C9102	F1BAH1020016	CAPACITOR	△
C9103	F1BAH1020016	CAPACITOR	△
C9603	F0CZZ4740002	CAPACITOR	

Ref. No.	Part No.	Part Name & Description	Remarks
C9610	F0C2E1050002	CAPACITOR	
C9617	F0C3C4720003	CAPACITOR	
C9618	F0C2J1540004	CAPACITOR	
C9619	F0C2J1540004	CAPACITOR	
		[OTHERS]	
A1	K1MN36B00014	36P CONNECTOR	
A2	K1MN36B00014	36P CONNECTOR	
A3	K1MN36B00014	36P CONNECTOR	
A4	K1KA05B00153	5P CONNECTOR	
A6	K1KA12B00066	12P CONNECTOR	
A7	K1KA02B00051	2P CONNECTOR	
A8	K1MN12B00070	12P CONNECTOR	
A15	TJS6A8780	3P CONNECTOR	K1KA03B00006
A16	TJS6A8780	3P CONNECTOR	K1KA03B00006
A17	TJS6A8780	3P CONNECTOR	K1KA03B00006
A18	TJS6A8780	3P CONNECTOR	K1KA03B00006
A19	K1KA04B00007	4P CONNECTOR	
A20	TJS6A8780	3P CONNECTOR	K1KA03B00006
A21	K1KA10B00126	10P CONNECTOR	
A22	K1KA07B00041	7P CONNECTOR	
A23	TJSF43709	CONNECTOR	K1KA09B00048
H1	K1KA09A00156	9P CONNECTOR	
H2	K1MN06B00040	6P CONNECTOR	
K3	K1KA02A00104	2P CONNECTOR	
S01	K1MN12B00137	12P CONNECTOR	
S02	K1KA02B00051	2P CONNECTOR	
F9101-1	EYF52BCY	FUSE HOLDER	
F9101-2	EYF52BCY	FUSE HOLDER	
F9101	K5D502BN0003	FUSE	△
FL1001	J0HABC000011	FILTER	
FL1002	J0HABC000011	FILTER	
FL1003	J0HABC000011	FILTER	
FL1004	EXCCET103U	EMI FILTER	
FL1005	EXCCET103U	EMI FILTER	
FL1006	EXCCET103U	EMI FILTER	
FL1010	J0HABB000015	FILTER	
HE2201	B4ABA0000009	HALL DEVICE	
JK1001	K1CB205B00004	S-VIDEO/VIDEO IN TERMINAL	
JK1002	K2HA304B00006	Y/Pb/Pr IN TERMINAL	
JK1003	K2HC103B0174	TRIGGER OUT TERMINAL	
JK1004	K1FA119E0001	HDMI IN TERMINAL	
JK1005	K1FB115B00079	RGB1 IN TERMINAL	
JK3401	K1FB121B00007	SCART TERMINAL	PT-AE700E
JK9101	K2AH3B000019	AC INLET	△
JS1004	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1005	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1006	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1007	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1008	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1009	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1010	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1011	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1012	ERJ6GEY0R00	M 0 OHM,J,1/10W	
JS1013	ERJ6GEY0R00	M 0 OHM,J,1/10W	
LF9101	G0B592H00001	FILTER	△
LF9102	G0B592H00001	FILTER	△
RM2001	B3RAD0000038	REMOTE CONTROL RECEIVER	
S9602	A9BZ00000010	SPARK GAP	
SW2001	EVQPLHA15	SWITCH	
SW2002	EVQPLHA15	SWITCH	
SW2003	EVQPLHA15	SWITCH	
SW2004	EVQPLHA15	SWITCH	
SW2005	EVQPLHA15	SWITCH	
SW2006	EVQPLHA15	SWITCH	
SW2007	EVQPLHA15	SWITCH	
SW2008	EVQPLHA15	SWITCH	
SW9101	K0A0A0000006	AC SWITCH	△
SW9601	T115AR3U3	SWITCH	△
T9604	G4F2A0000001	TRANS	△

Ref. No.	Part No.	Part Name & Description	Remarks
X1001	H1A7605B0003	CRYSTAL	
X1002	H0J270500077	CRYSTAL	
X1003	H0J200500048	CRYSTAL	
X1004	H0J983400016	CRYSTAL	
ZA001	TJC6137	EARTH LUG	
	ETXMM519MBG	CIRCUIT BOARD P	
	TXANP02VJY7	BALLAST UNIT	
ZA3402	TJC6137	EARTH LUG	PT-AE700E
RTL	TNPA3411	CIRCUIT BOARD S	
RTL	TNPA3417	CIRCUIT BOARD J	PT-AE700E
RTL	TXANP03PXNZ	CIRCUIT BOARD K	PT-AE700U
RTL	TXANP03PXQZ	CIRCUIT BOARD K	PT-AE700E
RTL	TXANP99PXNZ	CIRCUIT BOARD A	
RTL	TNPA3412	CIRCUIT BOARD H	